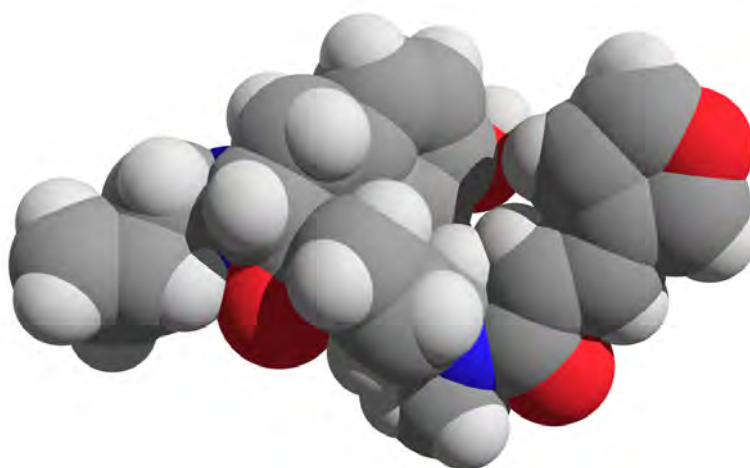




RESEARCH RESOURCES

DRUG SUPPLY PROGRAM CATALOG

25TH EDITION
MAY 2016

CHEMISTRY AND PHARMACEUTICS BRANCH
DIVISION OF THERAPEUTICS AND MEDICAL CONSEQUENCES
NATIONAL INSTITUTE ON DRUG ABUSE
NATIONAL INSTITUTES OF HEALTH
DEPARTMENT OF HEALTH AND HUMAN SERVICES
6001 EXECUTIVE BOULEVARD
ROCKVILLE, MARYLAND 20852



On the cover: CPK rendering of nalfurafine.

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A. INTRODUCTION

The National Institute on Drug Abuse (NIDA) Drug Supply Program (DSP) is administered by the Chemistry and Pharmaceuticals Branch, Division of Therapeutics and Medical Consequences. As part of its mission to lead the nation in bringing the power of science to bear on drug abuse and addiction, NIDA provides researchers with chemicals and research probes that are either unavailable, difficult to obtain, or very expensive to purchase. In addition, this program also provides analytical services of experimental samples used in research.

Drugs and Research Compounds. The NIDA DSP provides a variety of research chemicals and controlled substances for research purposes to all investigators working in the area of drug abuse, addiction, and related disciplines. The availability of controlled substances is regulated by the United States Drug Enforcement Administration (DEA), Department of Justice under the Controlled Substances Act (CSA), and Psychotropic Convention. These substances include hallucinogens, stimulants, sedatives and hypnotics, narcotics, designer drugs, cannabinoids, marijuana, and other miscellaneous categories of drugs. The NIDA DSP maintains an inventory of such drugs and other chemical substances. In addition, continuous efforts are made to synthesize new compounds and add them to the inventory. The stability and purity of all such compounds are monitored and maintained.

Marijuana and Marijuana Cigarettes. Marijuana is grown, harvested, processed and analyzed for delta-9-THC and other cannabinoids, stored under controlled conditions to preserve its purity and stability, and distributed for approved research purposes. This substance is subject to control under Schedule I of the CSA (21 U.S.C. 801 et seq.), the most restrictive of the five federally-regulated classes of controlled substances. Persons who wish to conduct research using marijuana for purposes other than research, such as forensic analytical standards, or any other law enforcement purposes must first obtain a special DEA registration under the CSA and then submit a request to NIDA along with required documents for consideration. It should be noted that priority for supply is given to researchers conducting federally-funded studies.

Nicotine Research Cigarettes. The NIDA DSP also houses a variety of nicotine research cigarettes (NRC) with specific characteristics for nicotine content and yield, tar, menthol, and ventilation (NOT-DA-13-002). As with other research chemicals or controlled substances supplied by the DSP, NRCs can be provided to investigators working in the area of drug abuse, addiction, or related disciplines at no cost. At this time, NRCs are of limited supply and priority is given to federally-funded grantees including

those working on areas related to the tobacco regulatory science authority of the NIDA Drug Supply Program and the United States Food & Drug Administration Center for Tobacco Products (FDA/CTP). A separate administrative review by the FDA/CTP, in collaboration with NIDA, is required for those working on projects within the FDA/CTP priority areas.

In order to obtain controlled substances, other research chemicals, marijuana, or marijuana and nicotine research cigarettes, research investigators are required to submit their requests along with necessary documents to the NIDA DSP for consideration. Applicants (domestic and foreign) without an NIH grant should note that their research protocol will require additional scientific review. Furthermore, research investigators who are not funded by NIH and plan to use marijuana or marijuana cigarettes in human research should be aware that their research protocol is subject to additional review as required by the US Department of Health and Human Services, Public Health Services. If marijuana is to be used for purposes other than human research, the request is forwarded to NIDA's Office of the Director for review and recommendation.

Foreign applicants must provide necessary documentation to demonstrate that they are allowed to import controlled substances, research chemicals, or marijuana cigarettes into their respective countries.

Approved research investigators are provided with pure drugs, compounds, or marijuana cigarettes along with their respective analytical data sheets.

B. NIDA DRUG SUPPLY PROGRAM (DSP) ORDERING GUIDELINES

To obtain research chemicals and controlled substances from the NIDA DSP, research investigators should prepare and submit a Request Package consisting of the following items for consideration:

1. A cover letter including:
 - a. Name, phone number and e-mail address of Research Investigator (and consignee, if applicable),
 - Provide a current and complete address that would allow shipment by a suitable carrier such as Federal Express (FedEx) (*i.e.* street address, Building name or number, room number, city and state) - This address should coincide with the address on the DEA order form.
 - For radio-labeled drugs or chemical substances, indicate the address at which the shipment can be made . In case the shipping address is different from the researcher's address, a current copy of the radioactive material license must be submitted.
 - b. If applicable, provide the NIH grant number, project title, and name and contact information of NIH Program Officer. If a non-grantee, no information on program Officer and grant number is required.
 - c. Name and quantity of compounds or other materials being requested, The total radioactivity (preferred unit of measurement, mg per vial, etc.)
 - If multiple studies/tasks are planned, combine projected needs into a single request rather than placing several separate requests in a short time interval. The request should generally be limited to four items or drugs/compounds per request to avoid delay.
 - Avoid drug abbreviations, and include specifications such as (+), (-), (*dl*), base, or salt. You may consult the NIDA DSP Catalog for such information.
2. The Research Investigator's *curriculum vitae* (if not a funded grantee)
3. A detailed research protocol clearly indicating:
 - a. The specific aims and goals of proposed study (preferably the study abstract)
 - b. The number of experiments and experimental subjects
 - c. The dosage or concentration of drugs

- Calculate required amount of drugs or chemical substances for your project and submit your request well in advance of your planned experiments or tasks, or 6-8 weeks prior to depletion of stock on hand for ongoing studies/tasks.
- d. Justification for quantity of compounds/drugs, or other substances in request requested.

If the request is related to a previously submitted protocol, provide a reference to this protocol and a brief description of progress along with references to resulting publications, if any.
- 4. A statement or commitment that NIDA will be acknowledged in research publications resulting from the use of supplies received from the NIDA Drug Supply Program.
- 5. A completed DEA Order Form-222 for Schedule I-II controlled substances.
 - a. DEA Form-222 is not necessary for drugs in Schedules III-V, but a valid registration for the appropriate schedule is required.
 - b. Under the third column of DEA Form-222 (Size of Package), list quantities as bulk weight. Radio-labeled compounds must be listed by weight and NOT by units of activity.
- 6. A copy of current DEA registration, Form DEA-223 for controlled substances.
 - a. It is the Research Investigator's responsibility to keep his/her registration current and to verify the drug code for requested drug.
 - b. Investigators who request a Schedule I drug and/or Etorphine HCl or Diprenorphine must provide DEA documentation under which the requested drug is covered under their current DEA registration.
 - c. Avoid drug abbreviations, and include specifications such as (+), (-), (dl), base, or salt, as appropriate.
- 7. A copy of a Nuclear Regulatory Commission license for radioactive compounds.

For more information, you may visit the Nuclear Regulatory Commission licensing website.
- 8. Research projects involving human subjects (Clinical research)
 - a. Investigational New Drug (IND) number and a copy of approved IND letter from the FDA. For more information, please visit the FDA IND Application website.
 - b. A copy of your Institutional Review Board (IRB) approval letter

- c. A copy of your Data Safety and Monitoring Plan
 - d. Proof of registration with clinicaltrials.gov (NCT #)
 - e. A copy of the study consent form(s)
9. For basic (non-human) research projects.
A copy of the document demonstrating that the research is approved by the Animal Care & Use Committee and that adequate care in conducting animal research will be exercised (if applicable). For more information, please visit the Animal Care & Use Committee Animal Study Proposal website.
10. For ongoing research projects (This includes research previously supported by the NIH prior to request)
- a. Reference information¹pertaining the previous protocol / FDA approval to the previous protocol
 - b. A brief description of progress (500 words or less)
 - c. A list of relevant publications.
11. Billing Information for Shipping (if applicable):
- a. US investigators should provide their FedEx account number to bill shipping charges,
 - b. International requests for controlled compounds should provide their United Parcel Service (UPS) Supply Chain Solutions account number to bill shipping charges. For non-controlled compounds the investigator should provide their FedEx account number.
12. Foreign research investigators must submit an Import Permit (preferably in English) issued by an appropriate agency of their government for internationally-controlled drug substances.
- a. The name of the supplier on the import permit must be listed as follows:

Research Triangle Institute
Kenneth S. Rehder
E. Institute Dr., Hermann Bldg.
Room 106
Research Triangle Park, NC 27709
 - b. The import permit should be accompanied by a signed statement from the investigator to the effect that the drug will be used solely for the purpose of re-

search and will not be re-exported. The import permit must contain a clear address and individual name to which the requested drug is to be delivered (not a post box number). Shipment should be indicated on the import permit as Air Freight to this individual. Specify the appropriate port for customs clearance purposes and provide the name and address of the Customs Clearance Agent, if one is used.

- c. Please obtain the longest possible expiration date on import permits.
- d. Foreign investigators requesting drugs or other substances that are not very stable should be certain to make advance arrangements that would allow these drugs or other substances to be released to them expeditiously. This is particularly relevant when dealing with radioactive materials with high specific activity (>1.0 Ci/mmol). These compounds are shipped as solutions in ice and will not stay cold for more than 48 hours; they must be retrieved and put in cold storage immediately to prevent decomposition.
- e. Foreign investigators should also be aware that compounds are shipped with a listed value for insurance purposes. Since this may cause problems with customs officials, investigators should determine in advance what steps should be taken to avoid these complications. Often an official statement that the compounds are for research only and have no commercial value is sufficient.

Failure to comply with aforesaid guidelines may delay the processing of your request.

ADDITIONAL NOTES:

1. ETORPHINE AND DIPRENORPHINE - Request for either of these two compounds should be made on separate order forms when ordering additional compounds at the same time. Etorphine hydrochloride and diprenorphine (free base or hydrochloride) are Schedule II drugs, however etorphine free base is a Schedule I drug. Therefore, etorphine free base should be ordered using DEA Form-222 as is appropriate for all Schedule I drugs.
2. CARFENTANIL, ETORPHINE AND DIPRENORPHINE – The DEA registration of a research investigator requesting these compounds must show the proper registration for such compounds.
3. For more information on the Drug Enforcement Administration registration forms including Form 222 and Form 223, please see: <http://www.deadiversion.usdoj.gov/drugreg/index.html>.

4. For more information about the FDA Investigational New Drug Application, please see: <http://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/ApprovalApplications/InvestigationalNewDrugINDApplication/default.htm>.
5. For more information on the Nuclear Regulatory Commission License, please see: <http://www.nrc.gov/about-nrc/regulatory/licensing.html>. Foreign applicants are required to submit additional documentation, including an import permit from the country into which the drug(s) are being shipped.

CONTACT INFORMATION:

All requests or questions should be addressed to:

Richard Kline, Ph.D.

phone: (301) 827-5243

email: rkline@nida.nih.gov

Robert Walsh

Phone: (301) 443-9825

email: bob.walsh@nih.gov

Kevin Gormley

Drug Supply Specialist

phone: (301) 435-0264

email: kgormley@nida.nih.gov

Division of Therapeutics and Medical Consequences (DTMC)

Chemistry and Pharmaceutics Branch (CPB)

National Institute on Drug Abuse, NIH

6001 Executive Boulevard, Room 4119

Rockville, MD 20852

Fax: (301) 443-2599

Phone: (301) 827-5243

C. DRUG REQUEST CHECKLIST

1. A ***cover letter*** including the name and quantities of compounds or drugs being requested, grant number, and name, phone number and e-mail address of your program officer (for an NIH/NIDA grantee), your shipping address, e-mail address, phone and fax numbers.
2. A ***recommendation letter*** from your program officer in support of your request.
3. A ***research protocol***, including justification for the requested quantity of compounds or drugs being requested.
4. A ***DEA Form 222*** (for controlled substances).
5. A copy of your current ***DEA registration*** (for controlled substances).
6. An ***approved FDA letter*** and ***IND number*** (for a clinical study).
7. A copy of an ***NRC license*** for radioactive compounds.
8. A ***curriculum vitae*** of the principal investigator, if applicable.
9. A ***statement of commitment*** that NIDA will be acknowledged in publications.

D. SAMPLE DEA ORDER FORM 222

(THIS IS A SAMPLE OF A CORRECTLY COMPLETED DEA 222 FORM. PLEASE NOTE THAT ALL ENTRIES SHOULD BE IN THE APPROPRIATE COLUMNS.)

See Reverse of PURCHASER'S Copy for Instructions		No order form may be issued for Schedule I and II substances unless a completed application form has been received. (21 CFR 1305.04)		OMB APPROVAL No. 1117-0010	
TO: (Name of Supplier) NIDA			STREET ADDRESS 6001 Executive Blvd, Room 4282, MSC 9555		
CITY and STATE Bethesda, MD 20892-9555		DATE XX-XX-XXXX	TO BE FILLED IN BY SUPPLIER SUPPLIER'S DEA REGISTRATION No.		
LINE NO.	TO BE FILLED IN BY PURCHASER				
	No. of Packages	Size of Packages	Name of Item	National Drug Code	Packages Shipped
	1	3	0.1 mg	9-Carboxy-11-nor-delta-9-THC	
	2	2	0.1 mg	9-Carboxy-11-nor-delta-9-THC-5'-2H3	
	3	5	0.1 mg	9-Carboxy-11-nor-delta-8-THC	
	4	1	1.0 mg	11-Hydroxy-delta-9-THC	
	5	3	0.1 mg	delta-9-THC-5'-2H3	
	6	1	100 tab	75 mg Morphine Base Implant tablets	
	7	1	20 q.	Cocaine HCl	
	8				
	9				
10					
7 LAST LINE COMPLETED		SIGNATURE OF PURCHASER OR HIS ATTORNEY OR AGENT John Doe			
Date Issued XX-XX-XXXX		DEA Registration No. XXXXXXXXXX	Name and Address of Registrant SAMPLE ONLY!!		
Schedules 1,2,3,4N,4,5		Please NOTE: Forms which do not indicate the number of packages, the size, the name of item, and the number of lines completed, or those which are not dated or signed by an authorized individual, WILL BE RETURNED.			
Registered as a XXXXXXXXXXXX	No. of this Order Form 123456789				
DEA Form -222 (Jun. 1983)		U.S.OFFICIAL ORDER FORMS -SCHEDULES I & II DRUG ENFORCEMENT ADMINISTRATION SUPPLIER'S COPY 1			39558785

CONTROLLED SUBSTANCES REGISTRATION CERTIFICATE
UNITED STATES DEPARTMENT OF JUSTICE
DRUG ENFORCEMENT ADMINISTRATION
WASHINGTON, D.C. 20537

The Controlled Substances Act of 1970 reads in part as follows:
 Sec. 304. (a) A registration pursuant to section 303 is manufacture, distribute, or dispense a controlled substance may be suspended or revoked by the Attorney General upon a finding that the registrant -
 (1) has materially falsified any application filed pursuant to or required by this title or title III,
 (2) has been convicted of a felony under this title or title III or any other law of the United States, or of any State, relating to any substance defined in this title as a controlled substance; or
 (3) has had his State license or registration suspended, revoked, or denied by competent State authority and is no longer authorized by State law to engage in the manufacturing, distribution, or dispensing of controlled substances.

DEA REGISTRATION NUMBER	THIS REGISTRATION EXPIRES	FEE PAID
XXXXXXXXXX	XX-XX-XX	XXXXXXX
SCHEDULES	BUSINESS ACTIVITY	DATE ISSUED
XXXXXX	XXXXXXXXXXXXXXXXXXXX	XX-XX-XX

SAMPLE ONLY!! A COPY MUST
BE INCLUDED WITH EVERY ORDER!!

THIS CERTIFICATE IS NOT TRANSFERABLE ON CHANGE OF OWNERSHIP, CONTROL, LOCATION, OR BUSINESS ACTIVITY

E. SUPPLY AND ANALYSIS OF STANDARD SOLUTIONS OF Δ^9 -THC

In discussions with investigators working in the area of quantitative analysis of Δ^9 -THC, the question on the availability of its standard has repeatedly arisen. Because of the difficulties associated with accurately weighing exact quantity of non-crystalline Δ^9 -THC, NIDA provided the following Δ^9 -THC and its standard in solution form upon special request to research investigators in past and it still continues to do so:

1. Small quantity of two stock solutions of Δ^9 -THC, 5 mg/ml in ethanol, and 0.5 mg/ml in ethanol, and Δ^9 -THC 0.70 mg/ml and androst-4-ene-3,17-dione in ethanol. The latter material is an internal standard for GC analysis. This steroid can also be provided in solid form to researchers who want to perform their own GC analyses. Note that both of these stock solutions are analyzed for exact composition and analytical data are provided with the shipment
2. As a final check, NIDA can provide the analysis of your stock solution using standardized procedure. At least 1.0 mL of stock solution should be provided with approximate concentration. If the concentration is greater than 50 μ g/mL Δ^9 -THC, a standard GLC or HPLC analysis is performed using a steroid internal standard. For concentrations lower than this, GC/MS technique is used.

For further information, contact:

Richard Kline, Ph.D.

Phone: (301) 827-5243

email:

rkline@nida.nih.gov

Robert Walsh

Phone: (301) 443-9825

email:

bob.walsh@nih.gov

Kevin Gormley (RTI)

Phone: (301) 435-0264

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kgormley@nida.nih.gov

Division of Therapeutics and Medical Consequences (DTMC)

Chemistry and Pharmaceuticals Branch (CPB)

National Institute on Drug Abuse, NIH

6001 Executive Boulevard, Room 4119

Rockville, MD 20852

F. ALTERNATIVE SOURCES FOR PEPTIDES

Recognizing a need in the research community for peptides, NIDA has included many peptides in the list of compounds provided to researchers through the NIDA Drug Supply Program. There are, however, a number of commercial suppliers that have many compounds of interest which are currently unavailable from the NIDA program. The addresses and phone numbers of some of these suppliers are:

PolyPeptide Laboratories San Diego
9395 Cabot Drive
San Diego, CA 82126
(800) 338-4965

Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
(800) 874-3723

Bachem Americas, Inc.
3132 Kashiwa Street
Torrance, CA 90505
(888) 422-2436

Sigma Chemical Co.
P.O. Box 14508
St. Louis, MO 63178
(800) 325-3010

NIDA is always receptive to suggestions for new peptides that are of interest to the scientific community. These suggestions should be in writing accompanied by the structure of the peptide as well as any names by which it is known. These suggestions should be forwarded to:

Richard Kline, Ph.D.
Division of Therapeutics and Medical Consequences (DTMC)
Chemistry and Pharmaceutics Branch (CPB)
National Institute on Drug Abuse, NIH
6001 Executive Boulevard, Room 4119
Rockville, MD 20852
email: rkline@nida.nih.gov
Fax: (301) 443-2599
Phone: (301) 827-5243

G. INSTRUCTIONS FOR ANALYTICAL SERVICES

NIDA facilitates drug abuse research by providing analytical services to research investigators who do not have necessary analytical facilities in their own laboratories. Priority is given to those investigators who are funded by NIDA.

Experimental samples (such as tissue, plasma, urine, and saliva) are analyzed in a NIDA contract laboratory for determining the concentration of drugs of abuse and their metabolites or precursors. The result of analyses is sent to research investigator with a copy to NIDA program official.

Request for analytical services should be submitted to the NIDA Drug Supply Program official with the following information for consideration and approval:

1. Number and title of your funded NIDA research grant
2. Name and contact information of your program official
3. In case of no grant, a brief research protocol
4. Number and name of drug(s) or drug metabolite(s) for analysis
5. Nature and origin of matrix such as rat/mouse/or human serum, plasma, urine, tissue, or saliva
6. Minimum expected concentrations of each drug/metabolites, and
7. Any other information that could be useful for analysis
8. A commitment to acknowledge NIDA in research publications resulting from this service. Once a research paper is published, a reprint or reference must be provided to NIDA drug supply program official.

After request approval, researcher will be contacted to submit experimental samples with shipping instructions to the following NIDA contract laboratory:

David E. Moody, Ph.D.
Center for Human Toxicology
University of Utah
30 South 2000 East
(for regular mail) Room 105
(for courier) Room 3956
Salt Lake City, UT 84112
Phone: (801) 581-5117; Fax: (801) 581-5034
E-Mail: david.Moody@utah.edu

NOTE: It is recommended that the research investigator obtain authorization prior to conducting any experiments so they can consult with the analytical laboratory about sample preparation and appropriate analyses.

Request for analysis should be submitted to:

Richard Kline, Ph.D.
Division of Therapeutics and Medical Consequences (DTMC)
Chemistry and Pharmaceuticals Branch (CPB)
National Institute on Drug Abuse, NIH
6001 Executive Boulevard, Room 4119
Rockville, MD 20852
email: rkline@nida.nih.gov
Fax: (301) 443-2599
Phone: (301) 827-5243

H. X-RAY DIFFRACTION ANALYSIS OF COMPOUNDS

The purpose of this service is to provide definitive three-dimensional structural coordinates of compounds in support of drug abuse research. X-Ray diffraction analysis is performed on two types of compounds. The first type consists of non-peptide drugs, their analogs, related probes or potential analytical therapeutics including substances related to cocaine, phencyclidine, cannabinoids, opiates, and others. The second type consists of opioids and related peptides (CCK related, FMRF related, and alpha MSH-related fragments, etc.).

X-ray diffraction results provide full characterization of a compound even when the empirical formula of the molecule is not known beforehand. It is only the analytical method that can clearly define the absolute configuration of a molecule. An X-ray diffraction experiment requires only one good single crystal ideally about 0.1 x 0.2 x 0.2 mm (~0.1 mg of starting material). Note that single crystals may contain solvent so the best results are often obtained when samples are shipped in their mother liquor. If the submitted sample does not contain suitable single crystals then a minimum of 10 mg of sample is required for crystallization experiments. For these non-crystalline compounds information about stability and solubility should be provided with the sample. In present day research environment growing good single crystal is often the slowest step in the process since the use of high speed computers and state of the art data collection systems have reduced the time needed to complete a single structure study from several weeks to a few days.

For all samples indicate: 1 – if absolute or relative conformation is required as part of the analysis; 2 – the chirality of any known centers; 3 – provide a diagram of the expected structure including a preferred numbering scheme if applicable.

To request X-ray diffraction analysis of compounds, research investigators should provide the following information for consideration:

REQUEST FOR X-RAY DIFFRACTION ANALYSIS

Name of Investigator: _____

Institution: _____

Mailing Address: _____

E-Mail Address: _____

Phone & Fax Numbers: _____

NIH/NIDA Grant Title: _____

NIH/NIDA Grant Number: _____

Name of Your Program Officer (NIH/NIDA): _____

Type of compound: _____

Empirical Formula: _____

Anticipated Structure/comments/suggestions:

Signature of Principal Investigator: _____

Provide a recommendation letter from your Program Officer in support of your request. If not a NIDA grantee, provide a research protocol of your study for review signifying the relevance of your study with the NIDA research programs. The priority will be given to research investigators who are funded by the NIDA. A commitment to recognize NIDA must be provided. Once a paper is published, a copy, reprint, or publication reference must be submitted to NIDA program official.

Note: An incomplete application may not be considered.

The signed request (or electronic version) for analysis should be submitted to the following for approval before submitting your sample to the Center for Crystallo-

graphic Studies, Laboratory for Structure of Matter, Naval Research Laboratory,
4555 Overlook Ave. S.W., Washington, D.C. 20375-5000:

Richard Kline, Ph.D.

Division of Therapeutics and Medical Consequences (DTMC)

Chemistry and Pharmaceuticals Branch (CPB)

National Institute on Drug Abuse, NIH

6001 Executive Boulevard, Room 4119

Rockville, MD 20852

email: rkline@nida.nih.gov

Fax: (301) 443-2599

Phone: (301) 827-5243

I. Nicotine Research Cigarettes Drug Supply Program

The NIDA DSP now provides a variety of nicotine research cigarettes (NRC) to research investigators. For more information on the Notice of Availability, please see <http://grants.nih.gov/grants/guide/notice-files/NOT-DA-14-004.html>.

Nicotine Research Cigarette Drug Supply Program Application Process

To obtain NRCs from the National Institute of Drug Abuse Drug Supply Program, all research investigators will need to prepare a Request Package.

Stepwise Procedure (Basic Non-Human Research)

1. A Request Package for NRC is submitted to the NIDA Drug Supply Program.
2. Once all request package materials are received, the NIDA Drug Supply Program Director reviews request package for completeness.
3. Materials are reviewed by NIH and assigned to a Program Officer.
 - For non-Grantees, the Program Officer refers to an external Scientific Expert Committee for further review.
4. Once reviewed, the Program Officer provides a recommendation to the NIDA Drug Supply Director for approval.
5. Once approved, if there is adequate inventory of nicotine research cigarettes, the NIDA Drug Supply Director issues shipment authorization.

Stepwise Procedure (Clinical Research with Human subjects)

1. A Request Package for NRC is submitted to the NIDA Drug Supply Program.
2. Once all request package materials are received, the NIDA Drug Supply Program Director for consideration.
3. Materials are reviewed by NIH and assigned to a Program Officer
 - For non-Grantees, the Program Officer refers to FDA and the Scientific Expert Committee for further review.
4. Once reviewed, the Program Officer provides a recommendation to the NIDA Drug Supply Director for approval.
5. Once approved, and there is adequate inventory of nicotine research cigarettes, the NIDA Drug Supply Director issues shipment authorization.

FAQs for the Investigational Tobacco Product (ITP) application

For researchers, in order for the Nicotine Research Cigarette (NRC) order to be deemed complete by the NIDA Drug Supply Program (DSP) Director, an Investigational Tobacco Product (ITP) application needs to be completed and forward to the FDA for approval. Below are helpful notes which will further your application to approval status. **Please be consistent and as specific as possible throughout your ITP application.** If not, applications may be considered inappropriate and delayed until corrected.

- Include actual date of previously submitted ITPs for cross-reference.

Reference the actual Tobacco Product Master File (TPMF) code name for the requested nicotine research cigarette (NRC) (e.g., NRC 300, RN).

- As specifically as possible, provide the specific grant number, grant title (where appropriate), project and/or protocol number and title, and PI for the study.
- Please provide the study sponsor. Note the distinction between “sponsor” and “investigator”: sponsors are typically considered to be the awarded institution (for NIH grants) to which the funding will be designated. Investigators are the primary research contact who conducts the research at that particular institution.
- Please be sure that the title of SPECTRUM cigarettes should be in all caps and consistent throughout your ITP application.

All inquiries and requests for the Investigational Tobacco Product application should be forwarded to the:

Center for Tobacco Products
Food and Drug Administration
Document Control Center, Room 020J
9200 Corporate Boulevard Rockville, MD 20850
(301) 796-0456

Point of Contact. All other requests or questions should be addressed to:

Richard Kline, Ph.D.
National Institute on Drug Abuse, NIH
6001 Executive Boulevard, Room 4119
Rockville, MD 20852
email: rkline@nida.nih.gov
Fax: (301) 443-2599
Phone: (301) 827-5243

J. Ordering Guidelines for Nicotine Research Cigarettes (NRCs)

To obtain NRCs from the NIDA DSP, all research investigators will need to prepare a NRC Request Package. A Request Package should include the following items:

1. A cover letter including:

- a. Name, phone number and e-mail address of Research Investigator (and consignee, if applicable),
 - Provide a current and complete address that would allow shipment by a suitable carrier such as Federal Express (FedEx) (i.e., street address, building name or number, room number, city and state),
- b. If applicable, NIH grant number of project and name and contact information of project's NIDA/NIH Program Officer. If a non-NIH grantee, no information on Program Officer and grant number is required.
- c. Type and quantity of NRCs being requested,
 - If multiple studies/tasks are planned, combine projected needs into a single order rather than placing several separate requests in a short time interval. The request should generally be limited to four items or drugs/compounds per order to avoid delay.

2. The Research Investigator's curriculum vitae (CV).

3. A detailed research protocol clearly indicating:

- a. The specific aims and goals of proposed study (preferably the study abstract)
- b. Number of experiments and experimental subjects
- c. Number and type of NRCs (NOT-DA-14-004), including respective Tobacco Product Master File (TPMF) codes,
 - Calculate required amount of NRCs for your project and submit your request well in advance of your planned experiments or tasks, or 6-8 weeks prior to depletion of stock on hand for ongoing studies/tasks.
- d. Justification for the quantity needed. If the request is related to a previously submitted protocol, provide a reference to this protocol and a brief statement of progress along with references to resulting publications.
- e. A timeline indicating approximately when and what quantities of NRC shipments are needed over the duration of the protocol.

- f. Statement of commitment that NIDA will be acknowledged in research publications using the NIDA-supplied cigarettes.
4. For Clinical Research Projects Involving Human Subjects
- a. Investigational Tobacco Product (ITP) application information including: A copy of FDA letter (Advice/Information Request) in response to your ITP application. (NOTE: Suggested guidelines for submitting an Investigational Tobacco Product Application (ITPA) to FDA/CTP are given separately. For more information, please visit [here](#).
 - b. A copy of your Institutional Review Board (IRB) approval letter
 - c. A copy of your Data Safety and Monitoring Plan
 - d. Proof of registration with [clinicaltrials.gov](#) (NCT #)
 - e. A copy of the study consent form(s)
5. For Basic (Non-human) Research Projects
- A copy of the document demonstrating that the research is approved by the Animal Care & Use Committee and that adequate care in conducting animal research will be exercised. For more information, please visit the Animal Care & Use Committee Animal Study Proposal website.
6. For Ongoing Research Projects (This includes research previously supported by the NIH prior to NRC request)
- a. Reference information pertaining the previous protocol / FDA approval to the previous protocol (if applicable).
 - b. A brief statement of progress (500 words or less)
 - c. A list of any relevant publications.
7. Billing Information for Shipping Costs (if applicable):
- a. US investigators should provide their FedEx account number to bill shipping charges,
 - b. International requests should provide United Parcel Service (UPS) Supply Chain Solutions account number to bill shipping charges or FedEx account number as appropriated for the import of NRCs.

Contact Information:

All requests/questions should be sent to: NIDANRCSupply@mail.nih.gov.

Please specify materials requested in the subject line.

Address correspondence to:

Richard Kline, Ph.D.
Division of Therapeutics and Medical Consequences (DTMC)
Chemistry and Pharmaceuticals Branch (CPB)
National Institute on Drug Abuse, NIH
6001 Executive Boulevard, Room 4119
Rockville, MD 20852
email: rkline@nida.nih.gov
Fax: (301) 443-2599
Phone: (301) 827-5243

K. Ordering Guidelines for Marijuana and Marijuana Cigarettes

To obtain marijuana and marijuana cigarettes from the NIDA DSP, all research investigators will need to prepare a Marijuana Cigarette Request Package. A Request Package should include the following items:

1. A cover letter including:

- a. Name, phone number and e-mail address of Research Investigator (and consignee, if applicable),
 - Provide a current and complete address that would allow shipment by a suitable carrier such as Federal Express(FedEx) (i.e. street address, building name or number, room number, city and state) - This address should coincide with the address on the DEA order form.
 - If requestor's address is outside the US, please provide all necessary documentation to verify whether particular compound requested is permitted in his/her country for importation.
- b. If applicable, NIH grant number of project and name and contact information of project's NIDA/NIH Program Officer (if applicable).

If a non-grantee, no information regarding the Program Officer and grant number is required.

- c. Name(s) and quantity of compounds or other substances being requested,
 - If multiple studies/tasks are planned, combine projected needs into a single order rather than placing several separate requests in a short time interval.

The request should generally be limited to no more than four items per order to avoid delay.

2. The Research Investigator's curriculum vitae (CV).

3. A detailed research protocol clearly indicating:

- a. The specific aims and goals of proposed study (preferably the study abstract),
- b. The number of experiments and experimental subjects,
- c. The strength or concentration of marijuana or marijuana cigarettes,
 - Calculate required amount of marijuana cigarettes for your project and submit your request well in advance of your planned experiments or tasks, or 6-8 weeks prior to depletion of stock on hand for ongoing studies/tasks.
- d. Justification for the quantity of marijuana or marijuana cigarettes requested.

If the request is related to a previously submitted protocol, provide a reference to this protocol and a brief statement of progress along with references to resulting publications.

4. Statement of commitment that NIDA will be acknowledged in research publications using the NIDA Drug Supply Program.

5. A completed [DEA Order Form-222](#).

- Under the third column of DEA Form-222 (Size of Package), list quantities as bulk weight.

6. A copy of current DEA registration, [Form DEA-223](#) for a controlled substance.

- It is the Research Investigator's responsibility to keep his/her registration current and verify the drug code for the requested materials.

7. For clinical research projects involving human subjects

1. Investigational New Drug (IND) number and a copy of approved IND letter from the FDA. For more information, please visit the [FDA IND Application website](#).
2. A copy of your Institutional Review Board (IRB) approval letter
3. A copy of your Data Safety and Monitoring Plan
4. Proof of registration with clinicaltrials.gov (NCT #)
5. A copy of the study consent form(s)

8. For basic (non-human) research projects

- A copy of the document demonstrating that the research is approved by the Animal Care & Use Committee and that adequate care in conducting animal research will be exercised (if applicable).

For more information, please visit the [Animal Care & Use Committee Animal Study Proposal website](#).

9. For ongoing research projects (This includes research previously supported by the NIH prior to request)

- a. Reference information pertaining to the previous protocol.
- b. A brief statement of progress (500 words or less)
- c. A list of any relevant publications.

10. Billing Information for Shipping Costs:

1. US investigators should provide a FedEx account number for shipping charges,
2. International requests for marijuana and marijuana cigarettes should provide their United Parcel Service (UPS) Supply Chain Solutions account number to bill shipping charges.

11. For Foreign Investigators, please submit the Import Permit (preferably in English) issued by an appropriate agency of your government. The name of the supplier on the import permit must be listed as follows:

Research Triangle Institute
Kenneth S. Rehder
E. Institute Dr., Hermann Bldg.
Room 106
Research Triangle Park, NC 27709

- The import permit should be accompanied by a signed statement from the investigator to the effect that the materials will be used solely for the purpose of research and will not be re-exported. The import permit must contain a clear address and individual name to which the requested material is to be delivered (not a post office box number). Shipment should be indicated on the import permit as Air Freight to this individual. Specify the appropriate port for customs clearance purposes and provide the name and address of the Customs Clearance Agent, if one is used.
- Please obtain the longest possible expiration date on import permits.
- Foreign investigators should also be aware that the material is shipped with a listed value (for insurance purposes). Since this can cause problems with customs officials, investigators should determine in advance what steps should be taken to avoid these complications. Often an official statement that the materials are for research only and have no commercial value is sufficient.

Failure to comply with these guidelines may delay the processing of your request.

Contact Information:

Richard Kline, Ph.D.

phone: (301) 827-5243

email: rkline@nida.nih.gov

Robert Walsh

Phone: (301) 443-9825

email: bob.walsh@nih.gov

Kevin Gormley

Drug Supply Specialist

phone: (301) 435-0264

email: kgormley@nida.nih.gov

Division of Therapeutics and Medical Consequences (DTMC)

Chemistry and Pharmaceutics Branch (CPB)

National Institute on Drug Abuse, NIH

6001 Executive Boulevard, Room 4119

Rockville, MD 20852

L. IMPORTANT ADDRESSES, TELEPHONE & FAX NUMBERS

NATIONAL INSTITUTE ON DRUG ABUSE

Richard Kline, Ph.D.

Phone: (301) 827-5243

email:

rkline@nida.nih.gov

Robert Walsh

Phone: (301) 443-9825

email:

bob.walsh@nih.gov

Kevin Gormley (RTI)

Phone: (301) 435-0264

email:

kgormley@nida.nih.gov

Division of Therapeutics and Medical Consequences (DTMC)
Chemistry and Pharmaceuticals Branch (CPB)
National Institute on Drug Abuse, NIH
6001 Executive Boulevard, Room 4119
Rockville, MD 20852

DRUG ENFORCEMENT ADMINISTRATION (DEA)

Office of Diversion Control Online: <http://www.deadiversion.usdoj.gov/>

Drug Enforcement Administration

Office of Diversion Control

8701 Morrisette Drive

Springfield, Virginia 22152

Phone: (800) 882-9539

FOOD AND DRUG ADMINISTRATION (FDA)

U.S. Food & Drug Administration

Department of Health & Human Services

10903 New Hampshire Avenue

Silver Spring, Maryland 20993

Phone: (888) 463-6332

Website: <http://www.fda.gov>

M. AVAILABLE DRUGS, COMPOUNDS, & DOSAGE FORMS



Disclaimer: All compound descriptions in this catalog are provided for the purpose of general information only and are not intended to address specific issues or to be a complete or definitive source of such information. Nothing herein is to be considered as a warranty, expressed or otherwise. Users of any the materials provided by NIDA are obligated to understand the proper and safe research applications and to comply with the applicable federal, state, and local laws and regulations. The substances described in this catalog are suitable for basic research only and, unless otherwise indicated, are **not** for human use.

1 – New Compounds

(Compounds added to the NDSP catalog since the 24th edition)

Catalog number	Compound	Page
7023-001	AB-PINACA	37
7031-001	AB-CHMINACA	37
NOCD-142	(+)-PHT dihydrochloride	72
NICT-020	(-)-Nicotine ditartrate	74
9652-071	CNV-NLX	77
9739-001	Remifentanil hydrochloride	78
2270-012	Sodium pentobarbital	141
7535-002	(<i>R</i>)-MDPV hydrochloride	150
7535-003	(<i>S</i>)-MDPV hydrochloride	150
7545-001	α -PVP hydrochloride	150



2 – Cannabinoids and Cannabinoid-related

Cannabinoids: Allosteric Modulators

Catalog number : NOCD-133

CASRN : 868273-06-7

Name : ORG 27569

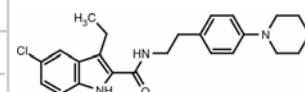
Mol. formula : $C_{24}H_{28}ClNO_3$

FW : 409.95

DEA schedule : 0

Notes : CB_1 receptor positive allosteric modulator.

References : Price et al (2005) Allosteric modulation of the Cannabinoid CB_1 receptor. *Mol.Pharmacol.* 68 1484. PMID: 16113085.



Cannabinoids: Cannabichromene Class

Catalog number : 7360-007

CASRN : 20675-51-8

Name : Cannabichromene

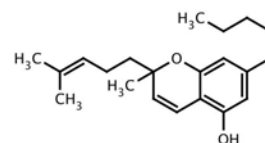
Mol. formula : $C_{21}H_{30}O_2$

FW : 314.46

DEA schedule : 1

Notes : Non-psychoactive constituent of cannabis.

References : Turner, CE; Elsohly, MA *J Clin Pharmacol* **1981**, 21, 283S-291S.



Catalog number : 7360-008

CASRN : 20675-51-8 (parent compd)

Name : $[1',2'-^3H_2]$ Cannabichromene

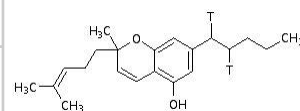
Mol. formula : $C_{21}H_{30}O_2$

FW : 314.46

DEA schedule : 1

Notes : Non-psychoactive constituent of cannabis (tritium-labeled).

References : *Instrumental Data for Drug Analysis*, 2nd Ed., **1996**, Volume 1, p304.



Cannabinoids: Cannabicyclohexanol Class

Catalog number : 7927-001

CASRN : 114753-51-4

Name : ($\pm$)-CP-47497

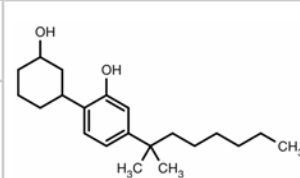
Mol. formula : $C_{21}H_{34}O_2$

FW : 318.50

DEA schedule : 1

Notes : Potent CB_1 receptor agonist.

References : Melvin, L. S., et al., *J Med Chem* **1984**, 27(1), 67-71.



Catalog number : 7298-001

CASRN : 70434-92-3

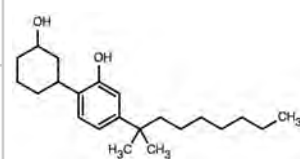
Name : Cannabicyclohexanol; ($\pm$)-CP-47,497 C8 homolog

Mol. formula : $C_{22}H_{36}O_2$

FW : 332.52

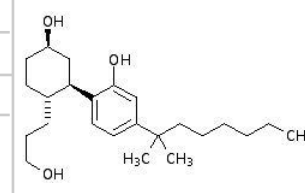
DEA schedule : 1

References : Compton DR, Johnson MR, Melvin LS, Martin BR, *J Pharm Exp Ther*, **1992**, 260(1), 201-209.

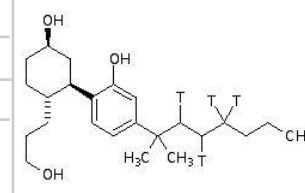


2 – Cannabinoids and Cannabinoid-related

Catalog number : NOCD-091	CASRN : 83002-04-4
Name : (-)-CP 55,940	
Mol. formula : C ₂₄ H ₄₀ O ₃	FW : 376.58 DEA schedule : 0
Notes : <i>High-affinity cannabinoid CB1 and CB2 receptor agonist</i>	
References : Melvin, LS; <i>et al. J Med Chem</i> 1984 , 27, 67-71.	

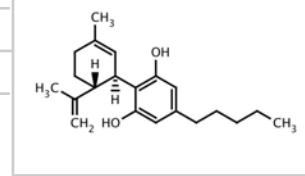


Catalog number : NOCD-092	CASRN : 119095-48-6
Name : [2,3,4,4- ³ H ₄]-(-)-CP 55,940	
Mol. formula : C ₂₄ H ₄₀ O ₃	FW : 376.58 DEA schedule : 0
Notes : <i>High affinity CB1 and CB2 receptor radioligand (tritium-labeled).</i>	

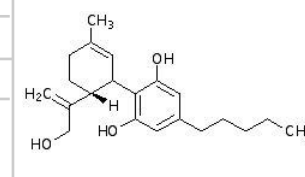


Cannabinoids: Cannabidiol Class

Catalog number : 7360-021	CASRN : 13956-29-1
Name : (-)-Cannabidiol	
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 314.46 DEA schedule : 1
Notes : <i>CB₁ and CB₂ receptor antagonist</i>	
References : Petitot, F; <i>et al. Life Sci</i> 1998 , 63, PL1-6. Costa, B; <i>et al. Br J Pharmacol</i> 2004 , 143, 247-50. Thomas, A; <i>et al. Br J Pharmacol</i> 2007 , 150, 613-23.	

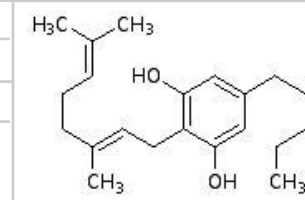


Catalog number : 7360-022	
Name : 10-Hydroxycannabidiol	
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 330.46 DEA schedule : 1
Notes : <i>Cannabidiol metabolite.</i>	
References : Lander, N; <i>et al. J Chem Soc., Perkin Trans 1</i> 1976 , 8-16.	



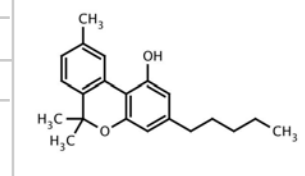
Cannabinoids: Cannabigerol Class

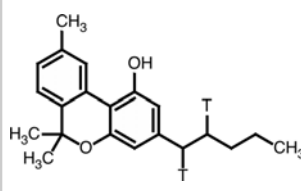
Catalog number : 7360-010	CASRN : 25654-31-3
Name : Cannabigerol	
Mol. formula : C ₂₁ H ₃₂ O ₂	FW : 316.48 DEA schedule : 1
Notes : <i>Analgesic; anti-inflammatory</i>	
References : Williamson, EM; Evans, FJ <i>Drugs</i> 2000 , 60, 1303-14.	

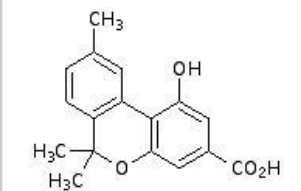


Cannabinoids: Cannabinol Class

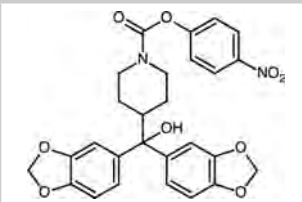
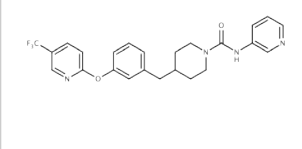
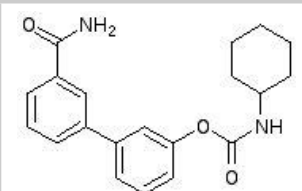
Catalog number : 7360-013	CASRN : 21-35-7
Name : Cannabinol; CBN	
Mol. formula : C ₂₁ H ₂₆ O ₂	FW : 310.43 DEA schedule : 1
Notes : <i>Inactive constituent of cannabis.</i>	
References : Mahadevan, A; <i>et al. J Med Chem</i> 2000 , 43, 3778-85.	



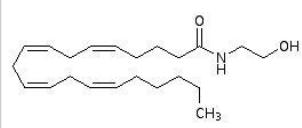
Catalog number : 7360-023		
Name : [1',2'- ³ H ₂]Cannabinol		
Mol. formula : C ₂₁ H ₂₆ O ₂	FW : 310.43	DEA schedule : 1
		

Catalog number : 7360-020		CASRN : 60788-14-9
Name : 1',2',3',4',5'-Pentanorcannabinol-3-carboxylic acid		
Mol. formula : C ₁₇ H ₁₆ O ₄	FW : 284.31	DEA schedule : 1
		

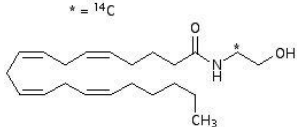
Cannabinoids: Enzyme Inhibitors

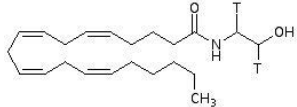
Catalog number : NOCD-037			CASRN : 1101854-58-3
Name : JZL184			
Mol. formula : C ₂₇ H ₂₄ N ₂ O ₉		FW : 520.49	DEA schedule : 0
Notes : Potent and selective inhibitor of monoacylglycerol lipase (MAGL).			
References : Long, JZ; et al. <i>Nat Chem Biol</i> 2009 , 5, 37-44.			
Catalog number : NOCD-124			CASRN : 1196109-52-0
Name : PF-3845			
Mol. formula : C ₂₄ H ₂₃ F ₃ N ₄ O ₂		FW : 456.47	DEA schedule : 0
Notes : Selective fatty acid amide hydrolase (FAAH) inhibitor.			
References : Ramesh D, Ross GR, Schlosburg JE, Owens RA, Abdullah RA, Kinsey SG, Long JZ, Nomura DK, Sim-Selley LJ, Cravatt BF, Akbarali HI, Lichtman AH, <i>J Pharmacol Exp Ther</i> 2011 , 339(1), 173-85.			
Catalog number : NOCD-098			CASRN : 546141-08-6
Name : Cyclohexylcarbamic Acid 3'-carbamoylbiphenyl-3-yl ester; URB 597			
Mol. formula : C ₂₀ H ₂₂ N ₂ O ₃		FW : 338.41	DEA schedule : 0
Notes : Fatty acid amide hydrolase (FAAH) inhibitor.			
References : Cravatt BF; et al. <i>Nature</i> 1996 , 384, 83. Kathuria S; et al. <i>Nat Med</i> 2003 , 9, 76.			

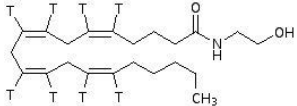
Cannabinoids: Fatty Acid Derivatives (Anandamides)

Catalog number : NOCD-080			CASRN : 94421-68-8
Name : Arachidonylethanolamide; Anandamide			
Mol. formula : C ₂₂ H ₃₇ NO ₂		FW : 347.54	DEA schedule : 0
Notes : Cannabinoid CB1 and CB2 receptor agonist.			
References : Devane, WA; et al. <i>Science</i> 1992 , 258, 1946-9.			

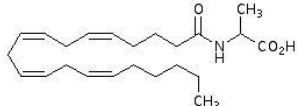
2 – Cannabinoids and Cannabinoid-related

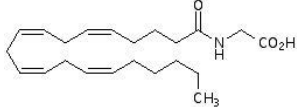
Catalog number : NOCD-007		
Name : Arachidonyl[1- ¹⁴ C]ethanolamide		
Mol. formula : C ₂₃ H ₃₇ NO ₂	FW : 361.56	DEA schedule : 0
		

Catalog number : NOCD-008		
Name : Arachidonyl[1,2- ³ H]ethanolamide; Tritiated Anandamide		
Mol. formula : C ₂₂ H ₃₇ NO ₂	FW : 347.54	DEA schedule : 0
		

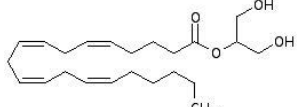
Catalog number : NOCD-078		
Name : Tritium-labeled Arachidonylethanolamide; Tritiated Anandamide		
Mol. formula : C ₂₂ H ₃₇ NO ₂	FW : 347.54	DEA schedule : 0
Notes : <i>Cannabinoid CB1 and CB2 receptor radioligand.</i>		
		

Cannabinoids: Fatty Acid Derivatives (Arachidonyl amides)

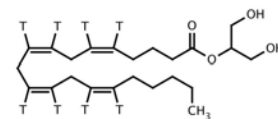
Catalog number : NOCD-097		CASRN : 401941-73-9
Name : N-Arachidonyl-L-alanine		
Mol. formula : C ₂₃ H ₃₇ NO ₃	FW : 375	DEA schedule : 0
		

Catalog number : NOCD-096		CASRN : 179113-91-8
Name : N-Arachidonylglycine; NAGly		
Mol. formula : C ₂₂ H ₃₅ NO ₃	FW : 361	DEA schedule : 0
Notes : <i>Endogenous anandamide-like compound with analgesic properties (although it lacks CB1 receptor and anandamide transporter affinity).</i>		
References : Sheskin, T; <i>et al. J Med Chem</i> 1997 , 40, 659-67. Huang, SM; <i>et al. J Biol Chem</i> 2001 , 276, 42639-44.		
		

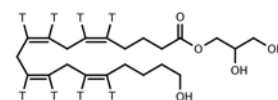
Cannabinoids: Fatty Acid Derivatives (Arachidonyl esters)

Catalog number : NOCD-089		CASRN : 53847-30-6
Name : 2-Arachidonylglycerol; 2-AG		
Mol. formula : C ₂₃ H ₃₈ O ₄	FW : 378.5	DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist.</i>		
References : Stella, N; Schweitzer P; Piomelli DNature 1997 , 388, 773-8.		
		

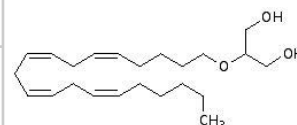
Catalog number : NOCD-018		
Name : [³ H]-2-Arachidonylglycerol; [³ H]-2-AG		
Mol. formula : C ₂₃ H ₃₈ O ₄	FW : 378.55	DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist (tritium-labeled).</i>		
References : Stella, N; Schweitzer, P; Piomelli, D <i>Nature</i> 1997 , <i>388</i> , 773-8.		



Catalog number : NOCD-035		
Name : Tritium-labeled 1-Arachidonylglycerol; [³ H]-1-AG		
Mol. formula : C ₂₃ H ₃₈ O ₄	FW : 378.55	DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist (tritium-labeled).</i>		
References : Stella, N; Schweitzer, P; Piomelli D <i>Nature</i> 1997 , <i>388</i> , 773-8.		

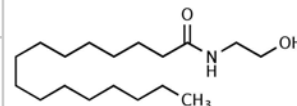


Catalog number : NOCD-095		CASRN : 222723-55-9
Name : Noladin		
Mol. formula : C ₂₃ H ₄₀ O ₃	FW : 364.57	DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist</i>		
References : Hanus, L; et al. <i>Proc Natl Acad Sci USA</i> 2001 , <i>98</i> , 3662-5.		

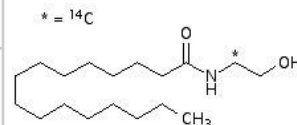


Cannabinoids: Fatty Acid Derivatives (Palmitoyl amides)

Catalog number : NOCD-002		CASRN : 544-31-0
Name : Palmitoyl ethanolamide; Palmidrol		
Mol. formula : C ₁₈ H ₃₇ NO ₂	FW : 299.49	DEA schedule : 0
Notes : <i>Cannabinoid CB2 receptor agonist.</i>		
References : Hanus, L; et al. <i>J Med Chem</i> 1993 , <i>36</i> , 3032-4.		

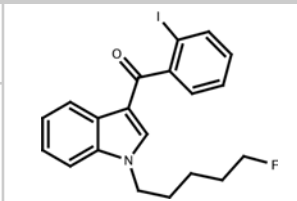


Catalog number : NOCD-005		
Name : Palmitoyl[1- ¹⁴ C]ethanolamide		
Mol. formula : C ₁₈ H ₃₇ NO ₂	FW : 299.49	DEA schedule : 0
Notes : <i>Cannabinoid CB2 receptor agonist (carbon-labeled).</i>		

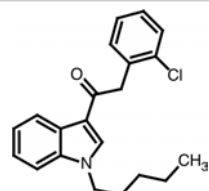


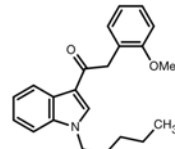
Cannabinoids: Indole Analogs & Related Compounds

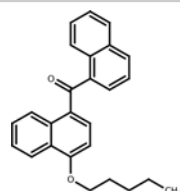
Catalog number : 7694-001		CASRN : 335161-03-0
Name : AM-694		
Mol. formula : C ₂₀ H ₁₉ FINO	FW : 435.27	DEA schedule : 1
References : Logan BK, Reinhold LE, Xu A, Diamond FX, <i>J Forensic Sci</i> , 2012 , <i>57</i> (5), 1168-1180.		



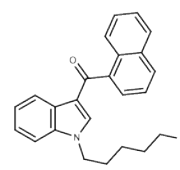
2 – Cannabinoids and Cannabinoid-related

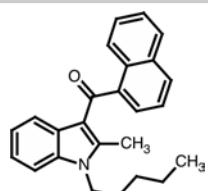
Catalog number : 7203-001		CASRN : 864445-54-5
Name : JWH-203		
Mol. formula : C ₂₁ H ₂₂ ClNO	FW : 339.86 DEA schedule : 1	
Notes : <i>Non-selective CB₁/CB₂ cannabinoid receptor agonist.</i>		
References : Huffman JW, Szklennik PV, Almond A, Bushell K, Selley DE, He H, Cassidy MP, Wiley JL, <i>et al.</i> , <i>Bioorg Med Chem Letters</i> , 2005 , 15(18), 4110-4113		

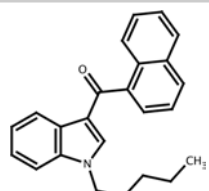
Catalog number : 6250-001		CASRN : 864445-43-2
Name : JWH-250		
Mol. formula : C ₂₂ H ₂₅ NO ₂	FW : 335.44 DEA schedule : 1	
Notes : <i>Non-selective CB₁/CB₂ cannabinoid receptor agonist.</i>		
References : Huffman JW, Szklennik PV, Almond A, Bushell K, Selley DE, He H, Cassidy MP, Wiley JL, <i>et al.</i> , <i>Bioorg Med Chem Letters</i> , 2005 , 15(18), 4110-4113		

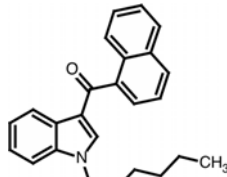
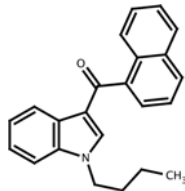
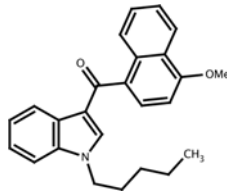
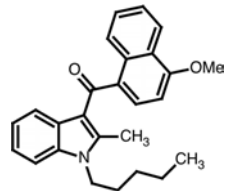
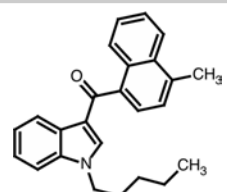
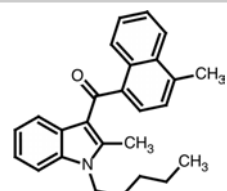
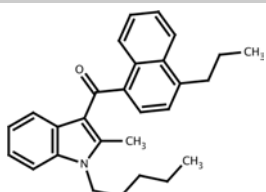
Catalog number : NOCD-036		CASRN : 432047-72-8
Name : Naphthalen-1-yl-(4-pentyloxynaphthalen-1-yl)methanone		
Mol. formula : C ₂₆ H ₂₄ O ₂	FW : 368.47 DEA schedule : 0	
Notes : <i>Orally bioavailable human CB1/CB2 dual agonist with antihyperalgesic properties and limited CNS penetration.</i>		
References : Dziadulewicz, EK; <i>et al. J Med Chem</i> 2007 , 50, 3851-6.		

Cannabinoids: Indole, Alkyl-naphthoyl Class

Catalog number : 7201-001		CASRN : 335161-24-5
Name : AM-2201		
Mol. formula : C ₂₄ H ₂₂ FNO	FW : 359.44 DEA schedule : 1	
Notes : <i>Non-selective CB₁/CB₂ cannabinoid receptor agonist.</i>		
References : Makriyannis, A; Deng H, Cannabimimetic Indole Derivatives, US Patent 7,241,799 B2 (2007).		

Catalog number : 7007-001	CASRN : 155471-10-6
Name : JWH-007	
Mol. formula : C ₂₅ H ₂₅ NO	
FW : 355.47 DEA schedule : 1	
References : Huffman JW, Dong D, <i>Bioorg Med Chem Letters</i> , 1994 , 4(4), 563-566.	

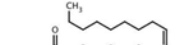
Catalog number : 7118-001		CASRN : 209414-07-3
Name : JWH-018		
Mol. formula : C ₂₄ H ₂₃ NO	FW : 341.45 DEA schedule : 1	
Notes : <i>Non-selective CB₁/CB₂ cannabinoid receptor agonist.</i>		
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, <i>et al.</i> , <i>Bioorg Med Chem</i> , 2005 , 13(1), 89-112.		

Catalog number : 7019-001			CASRN : 209414-08-4
Name : JWH-019			
Mol. formula : C ₂₅ H ₂₅ NO	FW : 355.47	DEA schedule : 1	
References : Poso A, Huffman JW, <i>Br J Pharm</i> , 2008 , 153(2), 335-346.			
Catalog number : 7173-001			CASRN : 208987-48-8
Name : JWH-073			
Mol. formula : C ₂₃ H ₂₁ NO	FW : 327.42	DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Wiley, JL; <i>et al.</i> , <i>J Pharmacol Exp Ther</i> 1998 , 285, 995-1004.			
Catalog number : 7081-001			CASRN : 210179-46-7
Name : JWH-081			
Mol. formula : C ₂₅ H ₂₅ NO ₂	FW : 371.47	DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, <i>et al.</i> , <i>Bioorg Med Chem</i> , 2005 , 13(1), 89-112.			
Catalog number : 7098-001			CASRN : 316189-74-9
Name : JWH-098			
Mol. formula : C ₂₆ H ₂₇ NO ₂	FW : 385.50	DEA schedule : 1	
References : Huffman JW, Zengin G, Wu MJ, Lu J, Hynd G, Bushell K, Thompson ALS, Bushell S, Tartal C, Hurst DP, Reggio PH, Selley DE, Cassidy MP, Wiley JL, Martin BR, <i>Bioorg Med Chem</i> , 2005 , 13, 89-112.			
Catalog number : 7122-001			CASRN : 619294-47-2
Name : JWH-122			
Mol. formula : C ₂₅ H ₂₅ NO	FW : 355.47	DEA schedule : 1	
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, <i>et al.</i> , <i>Bioorg Med Chem</i> , 2005 , 13(1), 89-112.			
Catalog number : 7149-001			CASRN : 548461-82-1
Name : JWH-149			
Mol. formula : C ₂₆ H ₂₇ NO	FW : 369.50	DEA schedule : 1	
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, <i>et al.</i> , <i>Bioorg Med Chem</i> , 2005 , 13(1), 89-112.			
Catalog number : 7181-001			CASRN : 824960-03-4
Name : JWH-181			
Mol. formula : C ₂₈ H ₃₁ NO	FW : 397.55	DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, <i>et al.</i> , <i>Bioorg Med Chem</i> , 2005 , 13(1), 89-112.			

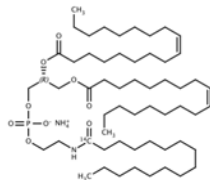
2 – Cannabinoids and Cannabinoid-related

Catalog number : 7182-001			CASRN : 824960-02-3
Name : JWH-182			
Mol. formula : C ₂₇ H ₂₉ NO		FW : 383.53 DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, et al., <i>Bioorg Med Chem</i> , 2005 , 13(1), 89–112.			
Catalog number : 7193-001			CASRN : 133438-58-1
Name : JWH-193			
Mol. formula : C ₂₆ H ₂₆ N ₂ O ₂		FW : 398.50 DEA schedule : 1	
References : Huffman JW, Padgett LW, Curr Med Chem, 2005, 12. 1395–1411.			
Catalog number : 7200-001			CASRN : 103610-04-4
Name : JWH-200; WIN 55,225			
Mol. formula : C ₂₄ H ₂₅ N ₂ O ₂		FW : 384.47 DEA schedule : 1	
References : Dutta AK, Ryan W, Thomas BF, Singer M, Compton DR, Martin BR, Razdan RK, <i>Bioorg Med Chem</i> , 1997 , 5(8), 1591–1600.			
Catalog number : 7210-001			CASRN : 824959-81-1
Name : JWH-210			
Mol. formula : C ₂₆ H ₂₇ NO		FW : 369.51 DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, et al., <i>Bioorg Med Chem</i> , 2005 , 13(1), 89–112.			
Catalog number : 7213-001			CASRN : 824959-83-3
Name : JWH-213			
Mol. formula : C ₂₇ H ₂₉ NO		FW : 383.53 DEA schedule : 1	
Notes : Non-selective CB ₁ /CB ₂ cannabinoid receptor agonist.			
References : Huffman J, Zengin G, Wu M, Lu J, Hynd G, Bushell K, Thompson A, Bushell S, et al., <i>Bioorg Med Chem</i> , 2005 , 13(1), 89–112.			

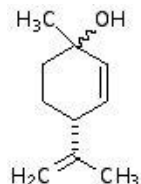
Cannabinoids: Precursors, Biosynthetic

Catalog number : NOCD-009		
Name : N-[1- ¹⁴ C]-Arachidonyl-1,2-dioleoyl- <i>sn</i> -glycero-3-phosphoethanolamine ammonium salt		
Mol. formula : C ₆₁ H ₁₁₁ N ₂ O ₉ P	FW : 1047.52 DEA schedule : 0	
Notes : Putative biosynthetic precursor of endogenous cannabinoids (carbon-labeled).		
References : Morishita, I. <i>et al. J Neurochem</i> 2005. 94. 753-62.		

Catalog number : NOCD-066		
Name : N-Palmitoyl-1,2-dioleoyl- <i>sn</i> -glycero-3-phosphoethanolamine ammonium salt		
Mol. formula : C ₅₇ H ₁₁₁ N ₂ O ₉ P	FW : 999.47	DEA schedule : 0
Notes : <i>Putative biosynthetic precursor of endogenous cannabinoids.</i>		
References : Morishita, J; <i>et al. J Neurochem</i> 2005, 94, 753–62.		

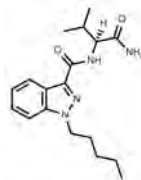
Catalog number : NOCD-000			
Name : N-[1- ¹⁴ C]-Palmitoyl-1,2-dioleoyl- <i>sn</i> -glycero-3-phosphoethanolamine ammonium salt			
Mol. formula : C ₅₇ H ₁₁₁ N ₂ O ₉ P			
FW : 999.47			
DEA schedule : 0			
Notes : <i>Putative biosynthetic precursor of endogenous cannabinoids (carbon-labeled).</i>			
References : Morishita I; <i>et al. J Neurochem</i> 2005, 94, 753-62.			

Cannabinoids: Precursors, Synthetic

Catalog number : NOCD-093			CASRN : 52154-82-2
Name : <i>p</i> -Mentha-2,8-dien-1-ol			
Mol. formula : C ₁₀ H ₁₆ O		FW : 152.2 DEA schedule : 0	
Notes : <i>Cannabinoid synthetic precursor</i>			
References : Razdan RK; Dalzell HC; Handrick GR <i>J Am Chem Soc</i> 1974, 96, 5860-5865.			

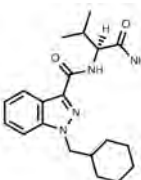
Cannabinoids: Pyrazole Class

Catalog number : 7023-001		new	CASRN : 1445752-09-9	
Name : AB-PINACA				
Mol. formula : C ₁₈ H ₂₆ N ₄ O ₂		FW : 330.43	DEA schedule : 1	
References : Uchiyama, N., Matsuda, S., Wakana, D., <i>et al.</i> , <i>Forensic Toxicol.</i> ,2012, 31(1), 93-100.				

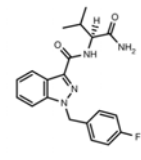


The chemical structure of AB-PINACA is shown. It features a central benzene ring fused to a pyrazole ring. The pyrazole ring has a butyl chain at position 3 and a carbonyl group at position 4. The carbonyl group is part of an amide linkage to a side chain that includes a chiral center with a methyl group and a carboxamide group.

Catalog number : 7031-001		new	CASRN : 1185887-21-1
Name : AB-CHMINACA			
Mol. formula : C ₂₀ H ₂₈ N ₄ O ₂		FW : 356.47	DEA schedule : 1
References : Uchiyama, N., Matsuda, S., Wakana, D., <i>et al.</i> , <i>Forensic Toxicol.</i> ,2012, 31(1), 93-100.			

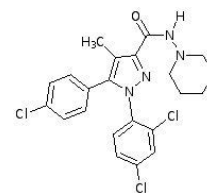


The chemical structure of AB-CHMINACA is shown. It features a 1-(cyclohexylmethyl)-2-((1S,2S)-2-((2S,3S)-3-aminobutan-2-ylideneamino)-1-methylbutan-1-yl)-1H-indazole-3-carboxamide moiety. The structure includes a cyclohexyl ring attached to the nitrogen of an indazole ring, which is further substituted with a butylideneamino group and a carboxamide group.

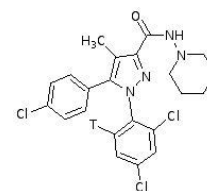
Catalog number : 7012-001		CASRN : 1185282-01-2
Name : AB-FUBINACA		
Mol. formula : C ₂₀ H ₂₁ N ₄ O ₂	FW : 368.41 DEA schedule : 1	
Notes : CB ₁ receptor agonist.		
References : Uchiyama, N., Matsuda, S., Wakana, D., <i>et al.</i> , <i>Forensic Toxicol.</i> ,2012, 31(1), 93-100.		

2 – Cannabinoids and Cannabinoid-related

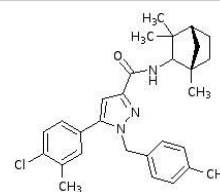
Catalog number : NOCD-082	
Name : SR141716	
Mol. formula : C ₂₂ H ₂₁ Cl ₃ N ₄ O	FW : 463.78 DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor ligand</i>	
References : Seltzman, H; <i>et al. J Chem Soc, Chem Commun</i> 1995 , 1549-1550.	



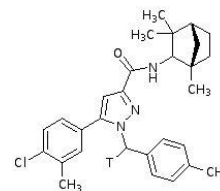
Catalog number : NOCD-083	CASRN : 170937-38-9
Name : [2,4-Dichlorophenyl-6- ³ H]SR141716	
Mol. formula : C ₂₂ H ₂₁ Cl ₃ N ₄ O	FW : 465.80 DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor radioligand (tritium-labeled).</i>	
References : Seltzman, H; <i>et al. J Chem Soc, Chem Commun</i> 1995 , 1549-1550.	



Catalog number : NOCD-085	CASRN : 192703-06-3
Name : SR144528	
Mol. formula : C ₂₉ H ₃₄ ClN ₃ O	FW : 476.05 DEA schedule : 0
Notes : <i>Cannabinoid CB2 receptor antagonist</i>	
References : Portier, M; <i>et al. J Pharmacol Exp Ther</i> 1999 , 288, 582-9. Rinaldi-Carmona, M; <i>et al. J Pharmacol Exp Ther</i> 1998 , 284, 644-50.	

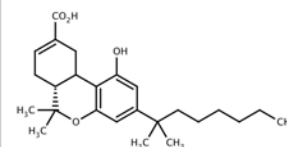


Catalog number : NOCD-086	CASRN : 475471-24-0
Name : Tritium-labeled SR144528	
Mol. formula : C ₂₉ H ₃₄ N ₃ OCl	FW : 478.05 DEA schedule : 0
Notes : <i>Cannabinoid CB2 receptor radioligand (tritium-labeled).</i>	
References : Portier, M; <i>et al. J Pharmacol Exp Ther</i> 1999 , 288, 582-9. Rinaldi-Carmona, M; <i>et al. J Pharmacol Exp Ther</i> 1998 , 284, 644-50.	

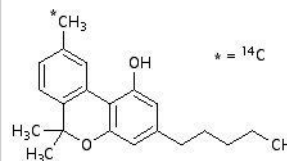


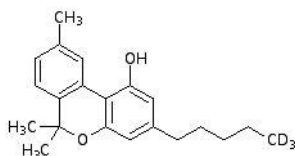
Cannabinoids: Tetrahydrocannabinol Class

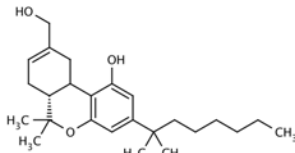
Catalog number : 7370-042	CASRN : 137945-48-3
Name : Ajulemic acid; IP-751	
Mol. formula : C ₂₅ H ₃₆ O ₄	FW : 400.55 DEA schedule : 1
Notes : <i>Non-psychoactive cannabinoid.</i>	
References : Burstein, S <i>AAPS J</i> 2005 , 7, E143-8. Wiley, JL <i>IDrugs</i> 2005 , 8, 1002-11.	

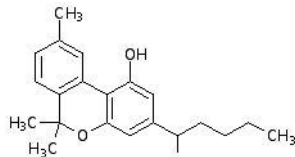


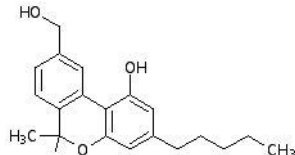
Catalog number : 7360-015	
Name : [11- ¹⁴ C]Cannabinol	
Mol. formula : C ₂₀₁₄ H ₂₆ O ₂	FW : 310.43 DEA schedule : 1
Notes : <i>Inactive constituent of cannabis (carbon-labeled).</i>	

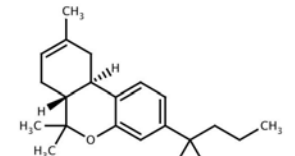


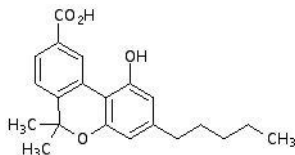
Catalog number : 7360-014		
Name : [5'- ² H ₃]Cannabinol		
Mol. formula : C ₂₁ H ₂₆ O ₂	FW : 310.43	DEA schedule : 1
Notes : <i>Inactive constituent of cannabis (deuterium-labeled).</i>		
		

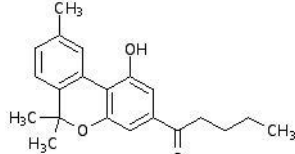
Catalog number : 7370-057		CASRN : 112830-95-2
Name : HU 210		
Mol. formula : C ₂₅ H ₃₈ O ₃	FW : 386.57	
DEA schedule : 1		
References : Ottani, A; Giuliani, D <i>CNS Drug Rev</i> 2001, 7, 131-45.		

Catalog number : 7360-017		
Name : 1'-Hydroxycannabinol		
Mol. formula : C ₂₁ H ₂₆ O ₃	FW : 326.43	DEA schedule : 1
		

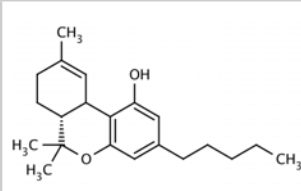
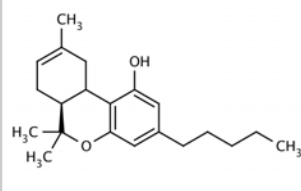
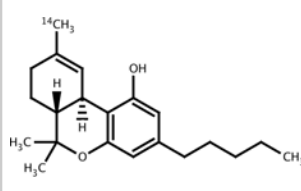
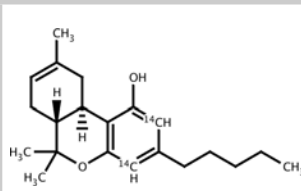
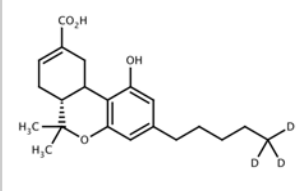
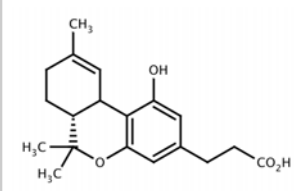
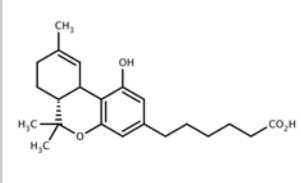
Catalog number : 7360-016		
Name : 11-Hydroxycannabinol		
Mol. formula : C ₂₁ H ₂₆ O ₃	FW : 326.43	DEA schedule : 1
		

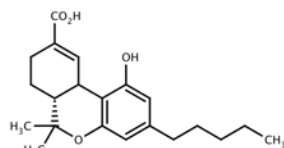
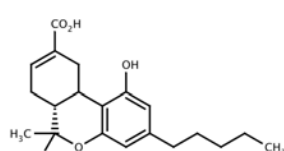
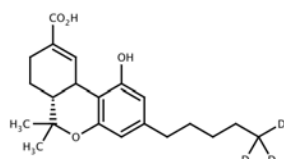
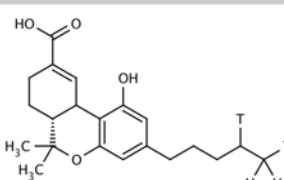
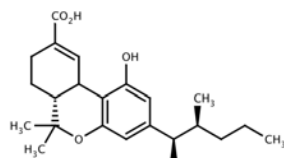
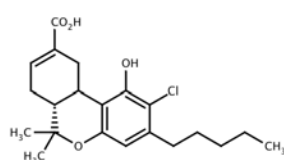
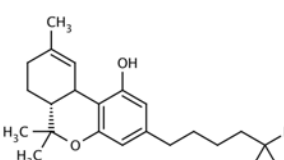
Catalog number : 7133-001		CASRN : 259869-55-1
Name : JWH-133		
Mol. formula : C ₂₂ H ₃₂ O	FW : 312.49	
DEA schedule : 1		
Notes : <i>Selective CB₂ receptor agonist.</i>		
References : Huffman, JW; et al., <i>Bioorganic & Medicinal Chemistry</i> 1999, 7, 2905-2914.		

Catalog number : 7360-019		CASRN : 53989-32-5
Name : 9-Carboxy-11-norcannabinol		
Mol. formula : C ₂₁ H ₂₄ O ₄	FW : 340.41	
DEA schedule : 1		

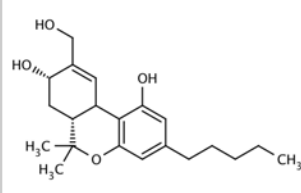
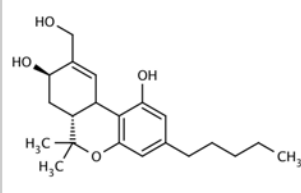
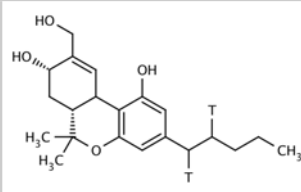
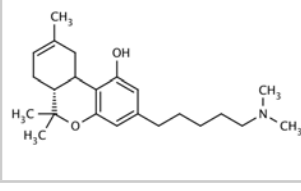
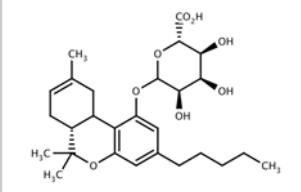
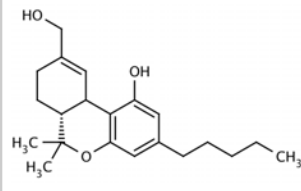
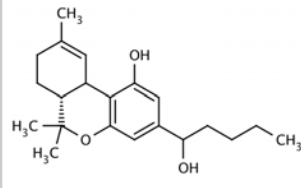
Catalog number : 7360-018		
Name : 1'-Oxocannabinol		
Mol. formula : C ₂₁ H ₂₄ O ₃	FW : 324.41	DEA schedule : 1
		

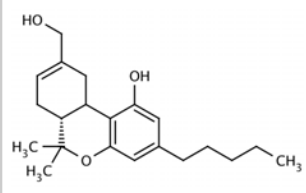
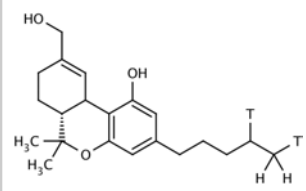
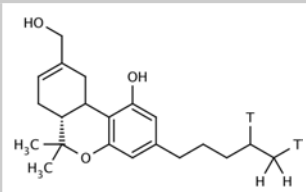
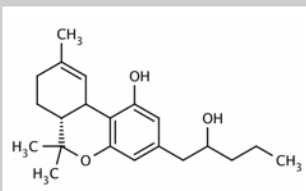
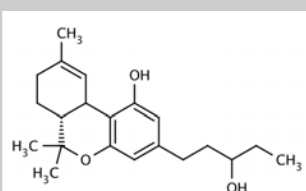
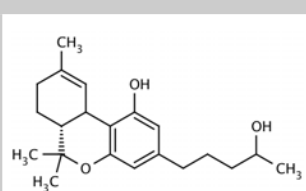
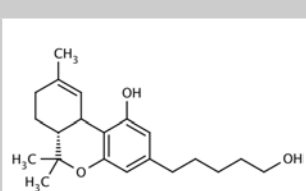
2 – Cannabinoids and Cannabinoid-related

Catalog number : 7370-023			CASRN : 1972-08-3
Name : (-)- Δ^9 -Tetrahydrocannabinol; THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 314.46	DEA schedule : 1	
References : <i>Merck Index</i> , 14th ed., Monograph 9209.			
Catalog number : 7370-053			CASRN : 81586-39-2
Name : (+)- Δ^8 -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 314.46	DEA schedule : 1	
Catalog number : 7370-033			
Name : [11- ¹⁴ C] Δ^9 -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 316.45	DEA schedule : 1	
Notes : <i>Hallucinogen; psychotropic; analgesic (carbon-labeled).</i>			
Catalog number : 7370-032			
Name : [2,4- ¹⁴ C] Δ^8 -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.45	DEA schedule : 1	
Notes : <i>Hallucinogen; psychotropic; analgesic (carbon-labeled).</i>			
Catalog number : 7370-038			
Name : [5'- ² H ₃]-11- <i>nor</i> - Δ^8 -THC-9-carboxylic acid			
Mol. formula : C ₂₁ H ₂₈ O ₄	FW : 347.46	DEA schedule : 1	
Catalog number : 7370-028			
Name : 2'-Carboxy-3',4',5'- <i>trior</i> - Δ^9 -THC			
Mol. formula : C ₁₉ H ₂₄ O ₄	FW : 316.39	DEA schedule : 1	
Catalog number : 7370-055			
Name : 5'-Carboxy- Δ^9 -THC			
Mol. formula : C ₂₂ H ₃₀ O ₄	FW : 358.47	DEA schedule : 1	

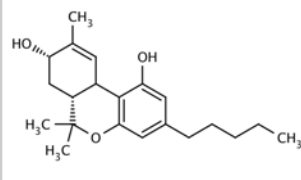
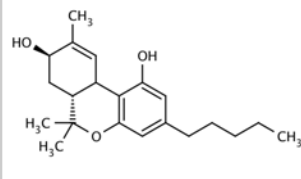
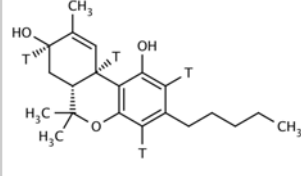
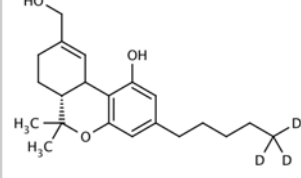
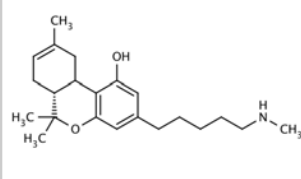
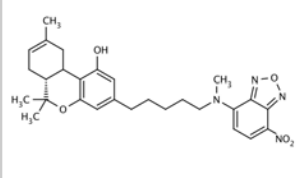
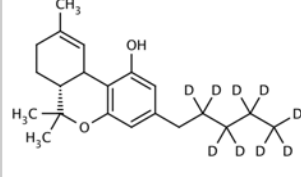
Catalog number : 7370-020			CASRN : 56354-06-4	
Name : 9-Carboxy-11-nor- Δ^9 -THC				
Mol. formula : C ₂₁ H ₂₈ O ₄				
Notes : Urinary metabolite of THC				
Catalog number : 7370-037			CASRN : 39690-06-7	
Name : 9-Carboxy-11-nor- Δ^8 -THC				
Mol. formula : C ₂₁ H ₂₈ O ₄				
Notes : Urinary metabolite of THC				
Catalog number : 7370-003			CASRN : 113269-48-0	
Name : [5'- ² H ₃]9-Carboxy-11-nor- Δ^9 -THC				
Mol. formula : C ₂₁ H ₂₈ O ₄				
Notes : Urinary metabolite of THC (deuterium-labeled).				
Catalog number : 7370-017				
Name : [4',5'- ³ H ₂]9-Carboxy-11-nor- Δ^9 -THC				
Mol. formula : C ₂₁ H ₂₈ O ₄				
Notes : Urinary metabolite of THC (tritium-labeled).				
Catalog number : 7370-040			CASRN : 199388-13-1	
Name : (6aR,10aR)-3-[(1S,2R)-1,2-Dimethylheptyl]-6a,7,10,10a-tetrahydro-6,6,9-trimethyl-6H-dibenzo[b,d]pyran-1-ol				
Mol. formula : C ₂₃ H ₃₂ O ₄				
Notes : Urinary metabolite of THC				
Catalog number : 7370-048				
Name : 9-Carboxy-11-nor-(2 or 4)-chloro- Δ^8 -THC				
Mol. formula : C ₂₁ H ₂₇ ClO ₄				
Notes : Urinary metabolite of THC				
Catalog number : 7370-005			CASRN : 81586-39-2	
Name : Deuterium-labeled Δ^9 -THC				
Mol. formula : C ₂₁ H ₃₀ O ₂				
Notes : Hallucinogen; psychotropic; analgesic (deuterium-labeled).				

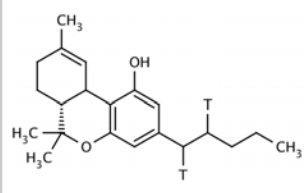
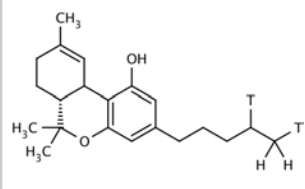
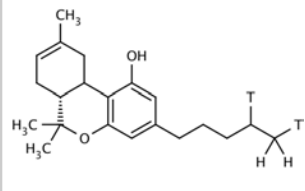
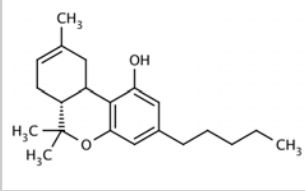
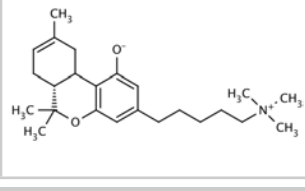
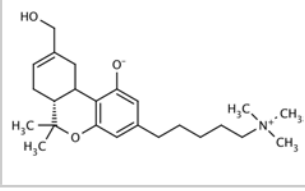
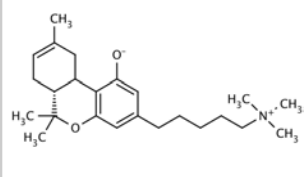
2 – Cannabinoids and Cannabinoid-related

Catalog number : 7370-018			CASRN : 36913-21-0		
Name : 8 α ,11-Dihydroxy- Δ^9 -THC					
Mol. formula : C ₂₁ O ₃ O ₄		FW : 346.47			DEA schedule : 1
Catalog number : 7370-022			CASRN : 57030-51-0		
Name : 8 β ,11-Dihydroxy- Δ^9 -THC					
Mol. formula : C ₂₁ H ₃₀ O ₄		FW : 346.47			DEA schedule : 1
Catalog number : 7370-026					
Name : [1',2'- ³ H ₂]-8 α ,11-Dihydroxy- Δ^9 -THC					
Mol. formula : C ₂₁ H ₃₀ O ₄		FW : 350.48			DEA schedule : 1
Catalog number : 7370-050					
Name : 5'-Dimethylamino- Δ^8 -THC					
Mol. formula : C ₂₃ H ₃₅ NO ₂		FW : 357.53			DEA schedule : 1
Catalog number : 7370-049			CASRN : 62667-60-1		
Name : Δ^8 -THC-O-glucuronide					
Mol. formula : C ₂₇ H ₃₈ O ₈		FW : 490.6			DEA schedule : 1
Catalog number : 7370-008			CASRN : 36557-05-08		
Name : 11-Hydroxy- Δ^9 -THC					
Mol. formula : C ₂₁ H ₃₀ O ₃		FW : 330.47			DEA schedule : 1
Catalog number : 7370-011					
Name : 1'-Hydroxy- Δ^9 -THC (Isomer B)					
Mol. formula : C ₂₁ H ₃₀ O ₃		FW : 330.46			DEA schedule : 1

Catalog number : 7370-034			
Name : 11-Hydroxy- Δ^8 -THC			
Mol. formula : $C_{21}H_{30}O_3$	FW : 330.46	DEA schedule : 1	
Catalog number : 7370-024			
Name : [4',5'- 3H_2]-11-Hydroxy- Δ^9 -THC			
Mol. formula : $C_{21}H_{30}O_2$	FW : 318.48	DEA schedule : 1	
Catalog number : 7370-035			
Name : [4',5'- 3H_2]-11-Hydroxy- Δ^8 -THC			
Mol. formula : $C_{21}H_{30}O_2$	FW : 318.48	DEA schedule : 1	
Catalog number : 7370-012			
Name : 2'-Hydroxy- Δ^9 -THC			
Mol. formula : $C_{21}H_{30}O_3$	FW : 330.46	DEA schedule : 1	
Catalog number : 7370-013			
Name : 3'-Hydroxy- Δ^9 -THC			
Mol. formula : $C_{21}H_{30}O_3$	FW : 330.46	DEA schedule : 1	
Catalog number : 7370-014			
Name : 4'-Hydroxy- Δ^9 -THC			
Mol. formula : $C_{21}H_{30}O_3$	FW : 330.46	DEA schedule : 1	
Catalog number : 7370-015			
Name : 5'-Hydroxy- Δ^9 -THC			
Mol. formula : $C_{21}H_{30}O_3$	FW : 330.46	DEA schedule : 1	

2 – Cannabinoids and Cannabinoid-related

Catalog number : 7370-016			
Name : 8α-Hydroxy-Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 330.46	DEA schedule : 1	
Catalog number : 7370-019		CASRN : 34984-78-6	
Name : 8β-Hydroxy-Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 330	DEA schedule : 1	
Catalog number : 7370-021			
Name : [2,4,8,10a- ³ H ₄]-8β-Hydroxy-Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 338.49	DEA schedule : 1	
Catalog number : 7370-010		CASRN : 130410-26-3	
Name : [5'- ² H ₃]-11-Hydroxy-Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 333	DEA schedule : 1	
Catalog number : 7370-054			
Name : 5'-Methylamino-Δ ⁸ -THC			
Mol. formula : C ₂₂ H ₃₂ NO ₂	FW : 342.49	DEA schedule : 1	
Catalog number : 7370-036			
Name : 5'-N-Methyl-N-4-(7-nitrobenzofurazano)amino-Δ ⁸ -THC			
Mol. formula : C ₂₈ H ₃₄ N ₄ O ₅	FW : 506.59	DEA schedule : 1	
Catalog number : 7370-025			
Name : [2',2',3',3',4',4',5',5',5'- ² H ₉]-Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 323.52	DEA schedule : 1	
Notes : Hallucinogen; psychotropic; analgesic (deuterium-labeled).			

Catalog number : 7370-004			
Name : [1',2'- ³ H ₂]Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1	
Notes : <i>Hallucinogen; psychotropic; analgesic (tritium-labeled).</i>			
Catalog number : 7370-009			
Name : [4',5'- ³ H]Δ ⁹ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1	
Catalog number : 7370-027			
Name : [4',5'- ³ H ₂]Δ ⁸ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1	
Notes : <i>Hallucinogen; psychotropic; analgesic (tritium-labeled).</i>			
Catalog number : 7370-030		CASRN : 5957-75-5	
Name : (-)-trans-Δ ⁸ -THC			
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 314.46	DEA schedule : 1	
Catalog number : 7370-051			
Name : 5'-Trimethylammonium-Δ ⁸ -THC phenolate			
Mol. formula : C ₂₄ H ₃₇ NO ₂	FW : 371.56	DEA schedule : 1	
Catalog number : 7370-056			
Name : 5'-Trimethylammonium-11-hydroxy-Δ ⁸ -THC phenolate			
Mol. formula : C ₂₄ H ₃₇ NO ₃	FW : 388.56	DEA schedule : 1	
Catalog number : 7370-052			
Name : [³ H ₃]-5'-Trimethylammonium-Δ ⁸ -THC phenolate			
Mol. formula : C ₂₄ H ₃₇ NO ₂	FW : 371.56	DEA schedule : 1	

Cannabinoids (dosage form): Stock Solutions

Catalog number : 7360-009		CASRN : 21366-63-2
Name : Cannabicyclol ampuls (1.0 mg/mL in absolute ethanol)		Dosage Form
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 314.46 DEA schedule : 1	
Notes : <i>Non-psychoactive constituent of cannabis. Photodegradation product of cannabichromene.</i>		
References : Burstein, S; Hunter, SA; Renzulli, LJ <i>Pharmacol Exp Ther</i> 1985 , 235, 87-91.		
Catalog number : 7370-001		
Name : Δ ⁹ -THC ampuls (various concentrations in 95% ethanol)		Dosage Form
DEA schedule : 1		

Dissociatives: Dexoxadrol Class

Catalog number : NOCD-068

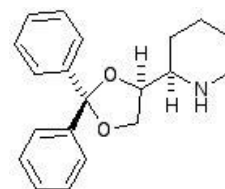
CASRN : 631-06-1

Name : α -(+)-Dexoxadrol hydrochlorideMol. formula : $C_{20}H_{24}ClNO_2$

FW : 345.87

DEA schedule : 0

References : Thurkauf, A; *et al. J Med Chem* **1988**, *31*, 2257-63.
 Sax, M; Wunsch, B *Curr Top Med Chem* **2006**, *6*, 723-32.



Catalog number : NOCD-069

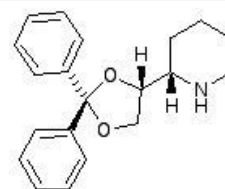
CASRN : 4792-18-1

Name : α -(-)-Levoxadrol hydrochlorideMol. formula : $C_{20}H_{24}ClNO_2$

FW : 345.87

DEA schedule : 0

References : Thurkauf, A; *et al. J Med Chem* **1988**, *31*, 2257-63.
 Sax, M; Wunsch, B *Curr Top Med Chem* **2006**, *6*, 723-32.



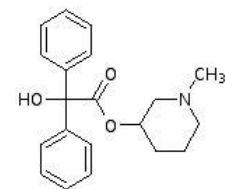
Catalog number : 7484-001

Name : N-Methyl-3-piperidylbenzilate hydrochloride

Mol. formula : $C_{20}H_{24}ClNO_3$

FW : 361.86

DEA schedule : 1

**Dissociatives: Phencyclidine Class**

Catalog number : 7471-004

CASRN : 956-90-1

Name : Phencyclidine hydrochloride; PCP HCl

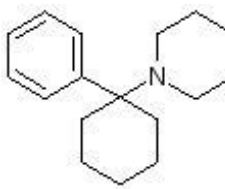
Mol. formula : $C_{17}H_{26}ClN$

FW : 284.36

DEA schedule : 2

Notes : CNS depressant; anesthetic, psychostimulant

References : Merck Index, 14th ed., Monograph 7219.



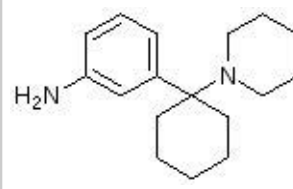
Catalog number : 7471-041

Name : 1-[1-(m-Aminophenyl)cyclohexyl]piperidine lactate

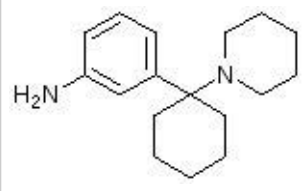
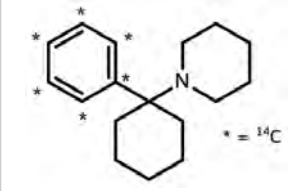
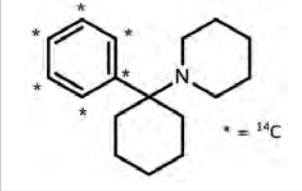
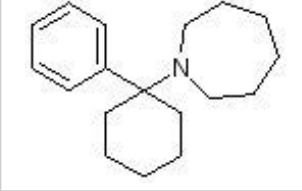
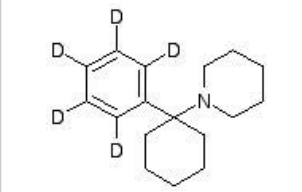
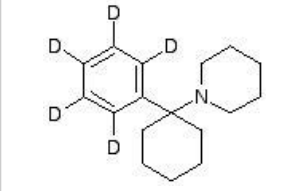
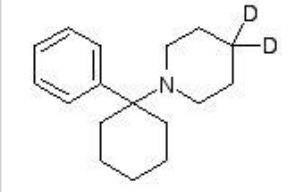
Mol. formula : $C_{20}H_{32}N_2O_3$

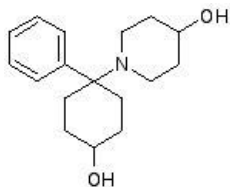
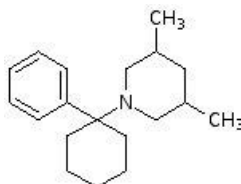
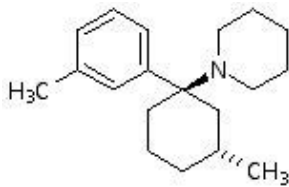
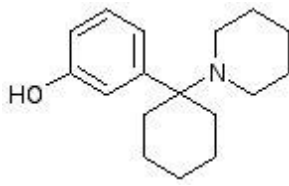
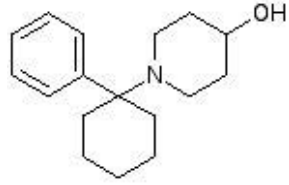
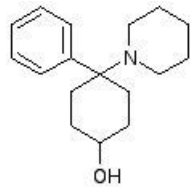
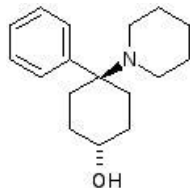
FW : 348.48

DEA schedule : 1

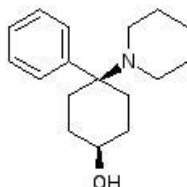


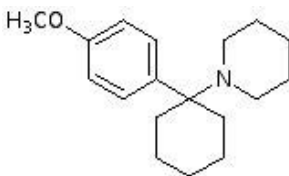
3 – Dissociatives

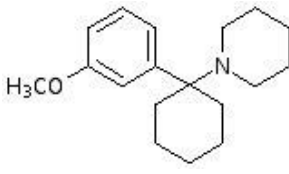
Catalog number : 7471-042			
Name : 1-[1-(<i>m</i> -Aminophenyl)cyclohexyl]piperidine			
Mol. formula : C ₁₇ H ₂₆ N ₂	FW : 258.39	DEA schedule :	1
			
Catalog number : 7471-002			
Name : [¹⁴ C]Phencyclidine HBr; [¹⁴ C]PCP			
Mol. formula : C ₁₈ H ₂₈ BrN	FW : 523.53	DEA schedule :	2
			
Catalog number : 7471-007			
Name : [Phenyl-U- ¹⁴ C]-1-(1-Phenylcyclohexyl)Piperidine; [Phenyl-U- ¹⁴ C]PCP			
Mol. formula : C ₁₇ H ₂₅ N	FW : 245.39	DEA schedule :	2
			
Catalog number : 7471-023			
Name : 1-(1-Phenylcyclohexyl)hexamethyleneimine hydrochloride			
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule :	1
			
Catalog number : 7471-003			
Name : [Phenyl-2,3,4,5,6- ² H ₅]Phencyclidine; [Phenyl-2,3,4,5,6- ² H ₅]PCP			
Mol. formula : C ₁₇ H ₂₅ N	FW : 248.42	DEA schedule :	2
			
Catalog number : 7471-006			
Name : [Phenyl- ² H ₅]Phencyclidine hydrochloride; [Phenyl- ² H ₅]PCP HCl			
Mol. formula : C ₁₇ H ₂₆ ClN	FW : 284.89	DEA schedule :	2
			
Catalog number : 7471-008			
Name : [Piperidino-4,4- ² H ₂]Phencyclidine hydrochloride; [Piperidino-4,4- ² H ₂]PCP			
Mol. formula : C ₁₇ H ₂₆ ClN	FW : 281.86	DEA schedule :	2
			

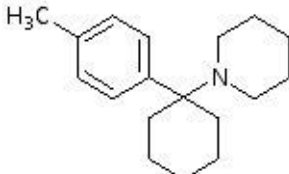
Catalog number : 7471-087			
Name : 4-(4'-Hydroxypiperidino)-4-phenylcyclohexanol (<i>cis/trans</i>)			
Mol. formula : C ₁₇ H ₂₅ NO ₂	FW : 275.40	DEA schedule : 1	
Catalog number : 7471-019			
Name : 1-(1-Phenylcyclohexyl)-3,5-dimethylpiperidine hydrochloride			
Mol. formula : C ₁₉ H ₃₀ ClN	FW : 307.91	DEA schedule : 1	
Catalog number : 7471-034			
Name : (±)- <i>cis</i> -1-[1-(<i>m</i> -Tolyl)-3-methylcyclohexyl]piperidine hydrochloride			
Mol. formula : C ₁₉ H ₃₀ ClN	FW : 307.91	DEA schedule : 1	
Catalog number : 7471-033			CASRN : 79787-43-2
Name : 1-[1-(<i>m</i> -Hydroxyphenyl)cyclohexyl]piperidine hydrochloride			
Mol. formula : C ₁₇ H ₂₆ ClNO	FW : 295.85	DEA schedule : 1	
References : Itzhak, Y; Kalir A; Sarne Y <i>Eur J Pharmacol</i> 1981 , 73, 229-33.			
Catalog number : 7471-081			
Name : 1-(1-Phenylcyclohexyl)-4-hydroxypiperidine			
Mol. formula : C ₁₇ H ₂₅ NO	FW : 259.40	DEA schedule : 1	
Catalog number : 7471-083			CASRN : 60756-83-4
Name : 1-(1-Phenyl-4-hydroxycyclohexyl)piperidine (<i>cis/trans</i>)			
Mol. formula : C ₁₇ H ₂₅ NO	FW : 259.35	DEA schedule : 1	
References : Carroll, FI; <i>et al. J Med Chem</i> 1981 , 24, 1047-51. Martin, BR; Vincek WC; Balster RL <i>Subst Alcohol Actions Misuse</i> 1981 , 2, 143-7.			
Catalog number : 7471-085			
Name : <i>cis</i> -1-(1-Phenyl-4-hydroxycyclohexyl)piperidine hydrochloride			
Mol. formula : C ₁₇ H ₂₆ ClNO	FW : 295.87	DEA schedule : 1	
References : Carroll, FI; <i>et al. J Med Chem</i> 1981 , 24, 1047-51.			

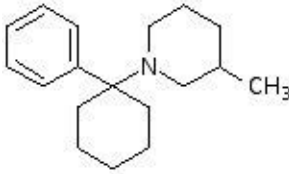
3 – Dissociatives

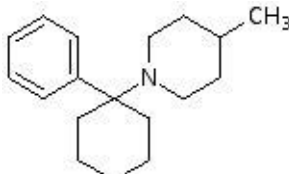
Catalog number : 7471-086		
Name : <i>trans</i> -1-(1-Phenyl-4-hydroxycyclohexyl)piperidine hydrochloride		
Mol. formula : C ₁₇ H ₂₆ ClNO	FW : 295.87	DEA schedule : 1
References : Carroll, FI; <i>et al. J Med Chem</i> 1981 , 24, 1047-51.		
		

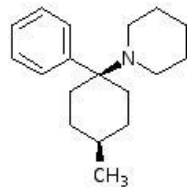
Catalog number : 7471-028		
Name : 1-[1-(<i>p</i> -Methoxyphenyl)cyclohexyl]piperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClNO	FW : 309.88	DEA schedule : 1
		

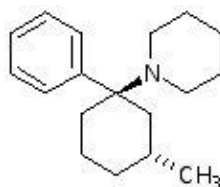
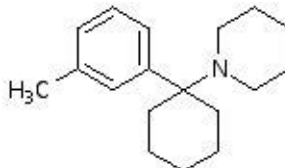
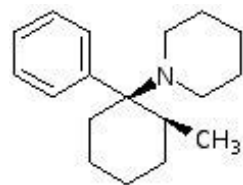
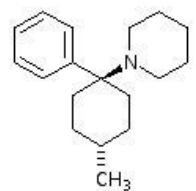
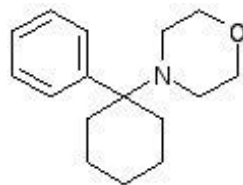
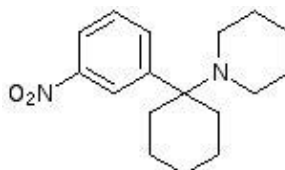
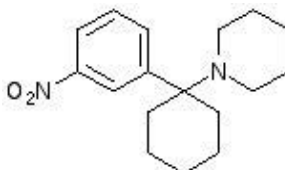
Catalog number : 7471-039		
Name : 1-[1-(<i>m</i> -Methoxyphenyl)cyclohexyl]piperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClNO	FW : 309.88	DEA schedule : 1
		

Catalog number : 7471-022		
Name : 1-[1-(<i>p</i> -Tolyl)cyclohexyl]piperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1
		

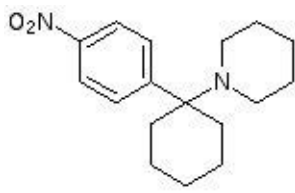
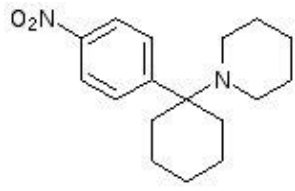
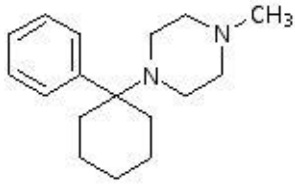
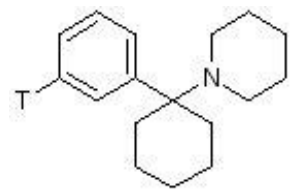
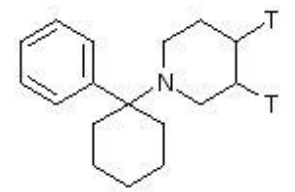
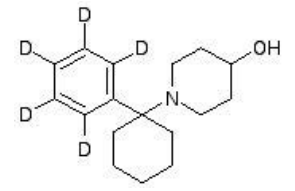
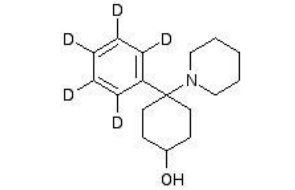
Catalog number : 7471-024		CASRN : 2201-41-4
Name : (±)-1-(1-Phenylcyclohexyl)-3-methylpiperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1
References : Berry, SC; <i>et al. Eur J Pharmacol</i> 1983 , 96, 261-7.		
		

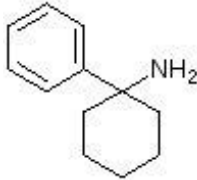
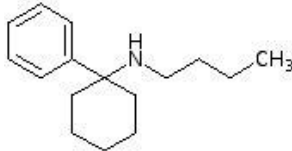
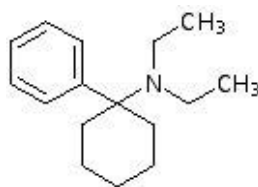
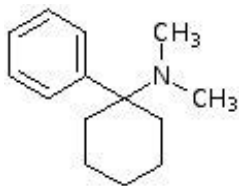
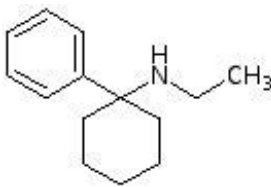
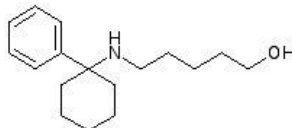
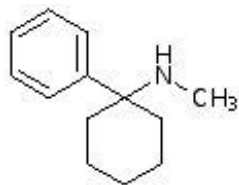
Catalog number : 7471-025		CASRN : 1934-50-5
Name : 1-(1-Phenylcyclohexyl)-4-methylpiperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1
		

Catalog number : 7471-029		
Name : <i>trans</i> -1-(1-Phenyl-4-methylcyclohexyl)piperidine hydrochloride		
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1
		

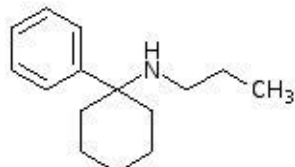
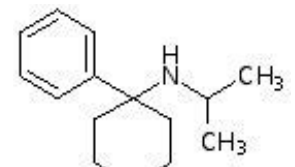
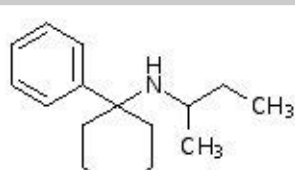
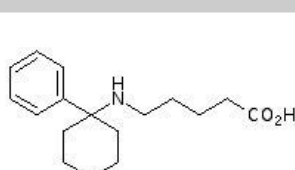
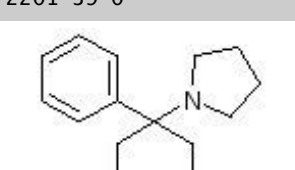
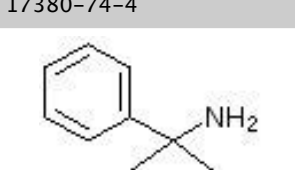
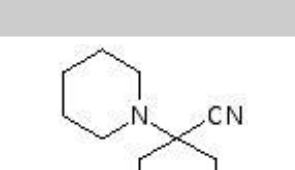
Catalog number : 7471-030			
Name : (±)- <i>cis</i> -(1-Phenyl-3-methylcyclohexyl)piperidine hydrochloride			
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1	
Catalog number : 7471-035			
Name : 1-[1-(<i>m</i> -Tolyl)cyclohexyl]piperidine hydrochloride			
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1	
Catalog number : 7471-036		CASRN : 59397-29-4	
Name : (±)- <i>trans</i> -1-(1-Phenyl-2-methylcyclohexyl)piperidine hydrochloride; 1-PMCPP			
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1	
References : Iorio, MA; <i>et al. J Med Chem</i> 1991 , 34, 2615-23.			
Catalog number : 7471-040		CASRN : 21602-54-0	
Name : <i>cis</i> -1-(1-Phenyl-4-methylcyclohexyl)piperidine hydrochloride			
Mol. formula : C ₁₈ H ₂₈ ClN	FW : 293.88	DEA schedule : 1	
Catalog number : 7471-010		CASRN : 2201-40-3	
Name : 1-(1-Phenylcyclohexyl)morpholine hydrochloride; PCM hydrochloride			
Mol. formula : C ₁₆ H ₂₄ ClNO	FW : 281.83	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , 16, 1425.			
Catalog number : 7471-026		CASRN : 70227-29-1	
Name : 1-[1-(<i>m</i> -Nitrophenyl)cyclohexyl]piperidine			
Mol. formula : C ₁₇ H ₂₄ N ₂ O ₂	FW : 288.38	DEA schedule : 1	
References : Ramoa, AS; Albuquerque EX <i>FEBS Lett</i> 1988 , 235, 156-62.			
Catalog number : 7471-027			
Name : 1-[1-(<i>p</i> -Nitrophenyl)cyclohexyl]piperidine hydrochloride			
Mol. formula : C ₁₇ H ₂₅ ClN ₂ O ₂	FW : 324.85	DEA schedule : 1	
References : Ramoa, AS; Albuquerque EX <i>FEBS Lett</i> 1988 , 235, 156-62.			

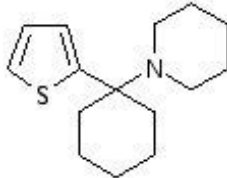
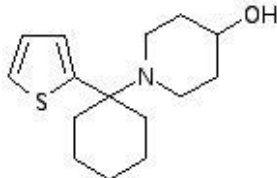
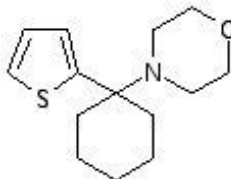
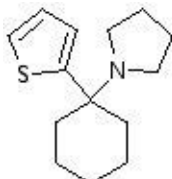
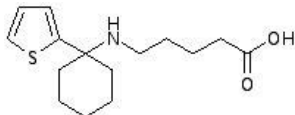
3 – Dissociatives

Catalog number : 7471-031			
Name : 1-[1-(p-Nitrophenyl)cyclohexyl]piperidine			
Mol. formula : C ₁₇ H ₂₄ N ₂ O ₂	FW : 288.38	DEA schedule : 1	
Catalog number : 7471-032			
Name : 1-[1-(p-Nitrophenyl)cyclohexyl]piperidine hydrochloride			
Mol. formula : C ₁₇ H ₂₅ ClN ₂ O ₂	FW : 324.85	DEA schedule : 1	
Catalog number : 7471-021			
Name : 1-(1-Phenylcyclohexyl)-N'-methylpiperazine			
Mol. formula : C ₁₇ H ₂₆ N ₂	FW : 258.41	DEA schedule : 1	
Catalog number : 7471-001			
Name : [Phenyl-3- ³ H(n)]Phencyclidine; [Phenyl-3- ³ H(n)]PCP			
Mol. formula : C ₁₇ H ₂₅ N	FW : 245.40	DEA schedule : 2	
Catalog number : 7471-043			
Name : [3',4'- ³ H]Phencyclidine; [3,4- ³ H]PCP			
Mol. formula : C ₁₇ H ₂₅ N	FW : 247.4	DEA schedule : 2	
Catalog number : 7471-082			
Name : [Phenyl- ² H ₅]-1-(1-Phenylcyclohexyl)-4-hydroxypiperidine			
Mol. formula : C ₁₇ H ₂₅ NO	FW : 264.43	DEA schedule : 1	
Catalog number : 7471-084			
Name : [Phenyl- ² H ₅]-1-(1-Phenyl-4-hydroxycyclohexyl)piperidine (<i>cis/trans</i>)			
Mol. formula : C ₁₇ H ₂₅ NO	FW : 264.43	DEA schedule : 1	

Catalog number : 7460-001			CASRN : 1934-71-0
Name : 1-Phenylcyclohexylamine hydrochloride; PCA hydrochloride			
Mol. formula : C ₁₂ H ₁₈ ClN	FW : 211.74	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425. Blake, PA; Yamaguchi, S; Thurkauf, A; Rogawski, MA <i>Epilepsia</i> 1992 , <i>33</i> , 188-94.			
Catalog number : 7460-005			
Name : N-Butyl-1-phenylcyclohexylamine hydrochloride			
Mol. formula : C ₁₆ H ₂₆ ClN	FW : 267.85	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.			
Catalog number : 7455-003			CASRN : 2201-19-6
Name : N,N-Diethyl-1-phenylcyclohexylamine hydrochloride; PCDE hydrochloride			
Mol. formula : C ₁₆ H ₂₆ ClN	FW : 267.84	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.			
Catalog number : 7455-002			CASRN : 2201-17-4
Name : N,N-Dimethyl-1-phenylcyclohexylamine hydrochloride			
Mol. formula : C ₁₄ H ₂₂ ClN	FW : 239.82	DEA schedule : 1	
Notes : Current designer drug?			
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.			
Catalog number : 7455-001			CASRN : 2201-15-2
Name : N-Ethyl-1-phenylcyclohexylamine hydrochloride; PCD hydrochloride			
Mol. formula : C ₁₄ H ₂₂ ClN	FW : 239.79	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425. Brady, KT; Balster, RL; Meltzer, LT; Schwertz, D <i>Pharmacol Biochem Behav</i> 1980 , <i>12</i> , 67-71.			
Catalog number : 7471-089			
Name : N-(5-Hydroxypentyl)-1-phenylcyclohexylamine hydrochloride			
Mol. formula : C ₁₇ H ₂₈ ClNO	FW : 297.87	DEA schedule : 0	
Catalog number : 7460-002			CASRN : 2201-16-3
Name : N-Methyl-1-phenylcyclohexylamine hydrochloride			
Mol. formula : C ₁₃ H ₂₀ ClN	FW : 225.76	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.			

3 – Dissociatives

Catalog number : 7460-003			CASRN : 18949-81-0	
Name : N-Propyl-1-phenylcyclohexylamine hydrochloride				
Mol. formula : C ₁₅ H ₂₄ ClN		FW : 253.82	DEA schedule : 1	
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.				
Catalog number : 7460-004				
Name : N-(i-Propyl)-1-phenylcyclohexylamine hydrochloride				
Mol. formula : C ₁₅ H ₂₄ ClN		FW : 253.82	DEA schedule : 1	
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.				
Catalog number : 7460-006				
Name : N-(s-Butyl)-1-phenylcyclohexylamine hydrochloride				
Mol. formula : C ₁₆ H ₂₆ ClN		FW : 267.85	DEA schedule : 1	
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.				
Catalog number : 7471-088				
Name : 5-[N-(1'-Phenylcyclohexyl)amino]pentanoic acid hydrochloride				
Mol. formula : C ₁₇ H ₂₆ ClNO ₂		FW : 311.86	DEA schedule : 0	
Catalog number : 7458-001				
CASRN : 2201-39-0				
Name : 1-(1-Phenylcyclohexyl)pyrrolidine hydrochloride; PCPy; Rolicyclidine				
Mol. formula : C ₁₆ H ₂₄ ClN		FW : 265.83	DEA schedule : 1	
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425. Budd, RD <i>N Engl J Med</i> 1980 , <i>303</i> , 588.				
Catalog number : 7460-012				
CASRN : 17380-74-4				
Name : 1-Phenylcyclopentylamine hydrochloride; PPA hydrochloride				
Mol. formula : C ₁₁ H ₁₆ ClN		FW : 197.71	DEA schedule : 1	
References : Blake, PA; Yamaguchi, S; Thurkauf, A; Rogawski, MA <i>Epilepsia</i> 1992 , <i>33</i> , 188-94.				
Catalog number : 8603-001				
Name : 1-Piperidinocyclohexanecarbonitrile				
Mol. formula : C ₁₂ H ₂₀ N ₂		FW : 192.31	DEA schedule : 1	

Catalog number : 7470-001			CASRN : 1867-65-8
Name : 1-[1-(2-Thienyl)cyclohexyl]piperidine hydrochloride; TCP hydrochloride			
Mol. formula : C ₁₅ H ₂₄ ClNS	FW : 285.88	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425. Vignon, J; <i>et al. Brain Res</i> 1983 , <i>280</i> , 194-7.			
Catalog number : 7470-002			
Name : 1-[1-(2-Thienyl)cyclohexyl]-4-hydroxypiperidine			
Mol. formula : C ₁₅ H ₂₃ NOS	FW : 265.42	DEA schedule : 1	
Catalog number : 7471-013			
Name : 1-[1-(2-Thienyl)cyclohexyl]morpholine hydrochloride			
Mol. formula : C ₁₄ H ₂₂ ClNOS	FW : 287.85	DEA schedule : 1	
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1979 , <i>16</i> , 1425.			
Catalog number : 7473-015			
Name : 1-[1-(2-Thienyl)cyclohexyl]pyrrolidine hydrochloride			
Mol. formula : C ₁₄ H ₂₂ ClNS	FW : 271.86	DEA schedule : 1	
Catalog number : 7470-003			
Name : 5-[N-[1'-(2-Thienyl)cyclohexyl]amino]pentanoic acid hydrochloride			
Mol. formula : C ₁₅ H ₂₄ ClNO ₂ S	FW : 317.88	DEA schedule : 0	



Hallucinogens: Amphetamine Class

Catalog number : 7396-011

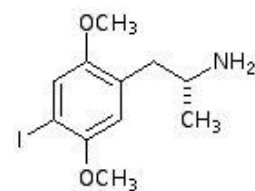
CASRN : 82864-06-0

Name : (-)-2,5-Dimethoxy-4-iodoamphetamine hydrochloride

Mol. formula : $C_{11}H_{17}ClINO_2$

FW : 357.62

DEA schedule : 0



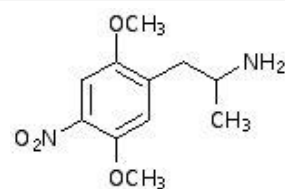
Catalog number : 7396-009

Name : (±)-2,5-Dimethoxy-4-nitroamphetamine hydrochloride

Mol. formula : $C_{11}H_{17}ClN_2O_4$

FW : 276.75

DEA schedule : 0



Catalog number : 7402-002

CASRN : 145284-65-7

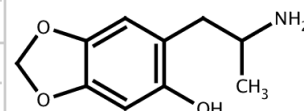
Name : (±)-6-Hydroxy-3,4-methylenedioxyamphetamine hydrochloride

Mol. formula : $C_{10}H_{14}ClNO_3$

FW : 238.89

DEA schedule : 1

Notes : CNS stimulant



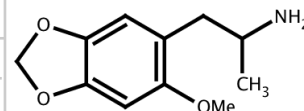
Catalog number : 7401-001

Name : (±)-2-Methoxy-4,5-methylenedioxyamphetamine hydrochloride

Mol. formula : $C_{11}H_{16}ClNO_3$

FW : 245.71

DEA schedule : 1



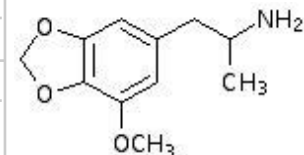
Catalog number : 7401-003

Name : (±)-3-Methoxy-4,5-methylenedioxyamphetamine hydrochloride

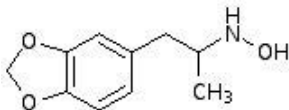
Mol. formula : $C_{11}H_{16}ClNO_3$

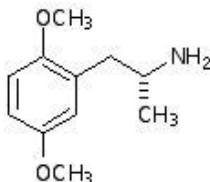
FW : 245.71

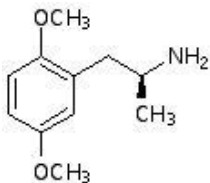
DEA schedule : 1

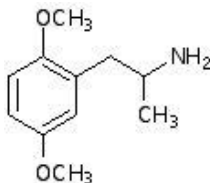


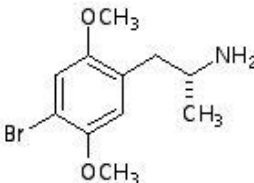
4 – Hallucinogens

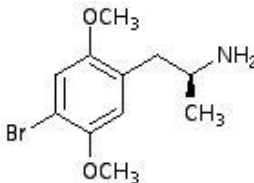
Catalog number : 7402-001			CASRN : 4764-17-4
Name : (±)-N-Hydroxy-3,4-methylenedioxyamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₄ ClNO ₃	FW : 231.68	DEA schedule : 1	
Notes : CNS stimulant			

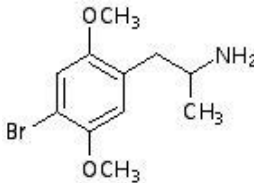
Catalog number : 7396-002			
Name : (-)-2,5-Dimethoxyamphetamine hydrochloride; (-)-DMA			
Mol. formula : C ₁₁ H ₁₈ ClNO ₂	FW : 231.72	DEA schedule : 1	

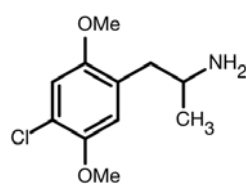
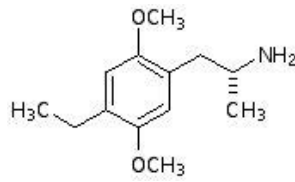
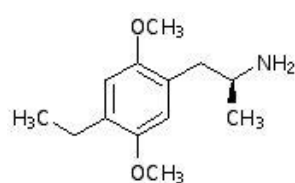
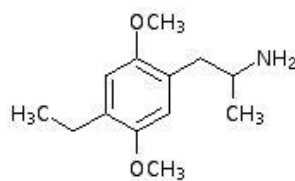
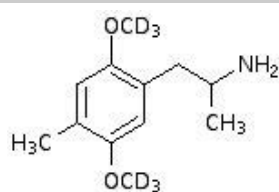
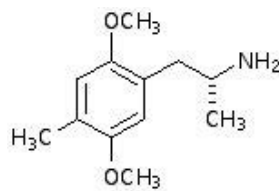
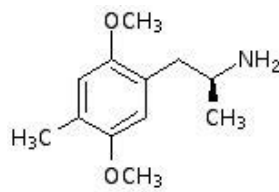
Catalog number : 7396-003			
Name : (+)-2,5-Dimethoxyamphetamine hydrochloride; (+)-DMA			
Mol. formula : C ₁₁ H ₁₈ ClNO ₂	FW : 231.72	DEA schedule : 1	

Catalog number : 7396-001			
Name : (±)-2,5-Dimethoxyamphetamine hydrochloride; (±)-DMA			
Mol. formula : C ₁₁ H ₁₈ ClNO ₂	FW : 231.72	DEA schedule : 1	

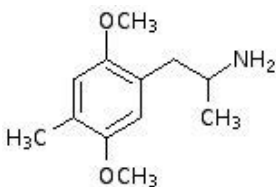
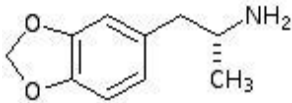
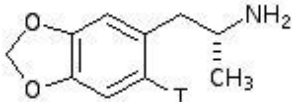
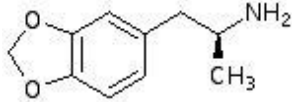
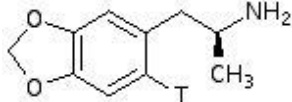
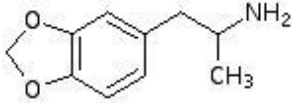
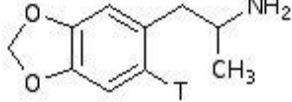
Catalog number : 7391-003			
Name : (-)-4-Bromo-2,5-dimethoxyamphetamine hydrochloride; (-)-DOB			
Mol. formula : C ₁₁ H ₁₇ BrClNO ₂	FW : 310.62	DEA schedule : 1	

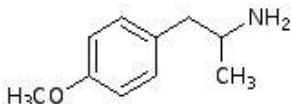
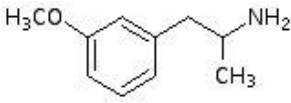
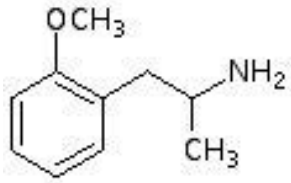
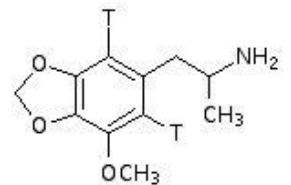
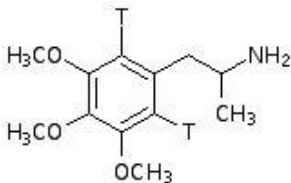
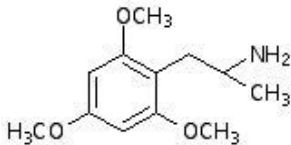
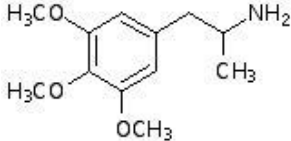
Catalog number : 7391-002			
Name : (+)-4-Bromo-2,5-dimethoxyamphetamine hydrochloride; (+)-DOB			
Mol. formula : C ₁₁ H ₁₇ BrClNO ₂	FW : 310.62	DEA schedule : 1	

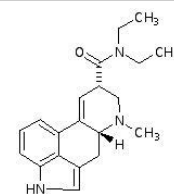
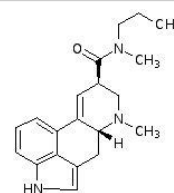
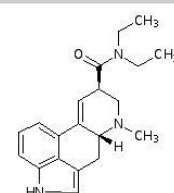
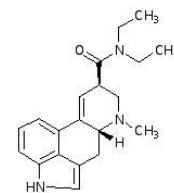
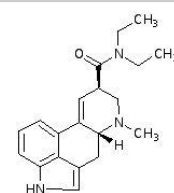
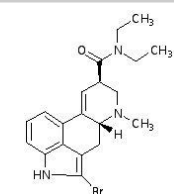
Catalog number : 7391-001			
Name : (±)-4-Bromo-2,5-dimethoxyamphetamine hydrochloride; (±)-DOB			
Mol. formula : C ₁₁ H ₁₇ BrClNO ₂	FW : 310.62	DEA schedule : 1	

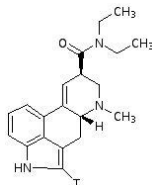
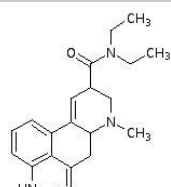
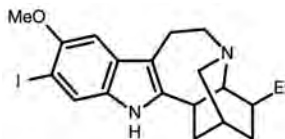
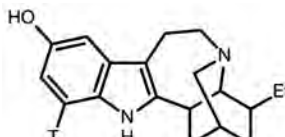
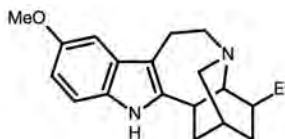
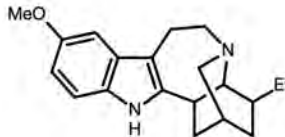
Catalog number : 7391-004			CASRN : 123431-31-2
Name : (±)-4-Chloro-2,5-dimethoxyamphetamine hydrochloride; (±)-DOC			
Mol. formula : C ₁₁ H ₁₆ ClNO ₂ • HCl	FW : 266.166	DEA schedule : 1	
	3		
Catalog number : 7399-007			
Name : (-)-2,5-Dimethoxy-4-ethylamphetamine hydrochloride; (-)-DOET			
Mol. formula : C ₁₃ H ₂₂ ClNO ₂	FW : 259.78	DEA schedule : 1	
Catalog number : 7399-005			
Name : (+)-2,5-Dimethoxy-4-ethylamphetamine hydrochloride; (+)-DOET			
Mol. formula : C ₁₃ H ₂₂ ClNO ₂	FW : 259.78	DEA schedule : 1	
Catalog number : 7399-004			
Name : (±)-2,5-Dimethoxy-4-ethylamphetamine hydrochloride; (±)-DOET			
Mol. formula : C ₁₃ H ₂₂ ClNO ₂	FW : 259.78	DEA schedule : 1	
Catalog number : 7395-004			
Name : [OC ² H ₃]-2,5-Dimethoxy-4-methylamphetamine HCl; [OC ² H ₃]DOM			
Mol. formula : C ₁₂ H ₂₀ ClNO ₂	FW : 251.78	DEA schedule : 1	
Catalog number : 7395-002			CASRN : 15588-95-1
Name : (-)-2,5-Dimethoxy-4-methylamphetamine hydrochloride; (-)-DOM			
Mol. formula : C ₁₂ H ₂₀ ClNO ₂	FW : 245.75	DEA schedule : 1	
Catalog number : 7395-003			
Name : (+)-2,5-Dimethoxy-4-methylamphetamine hydrochloride; (+)-DOM			
Mol. formula : C ₁₂ H ₂₀ ClNO ₂	FW : 245.75	DEA schedule : 1	

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Catalog number : 7395-001			CASRN : 15588-95-1	
Name : (±)-2,5-Dimethoxy-4-methylamphetamine hydrochloride; (±)-DOM				
Mol. formula : C ₁₂ H ₂₀ ClNO ₂		FW : 245.75 DEA schedule : 1		
Catalog number : 7400-003			CASRN : 61614-60-6	
Name : (-)-3,4-Methylenedioxyamphetamine hydrochloride; (-)-MDA HCl				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 215.68 DEA schedule : 1		
Catalog number : 7400-006			CASRN : 6292-91-7	
Name : (-)-[6'- ³ H ₂ (n)]-3',4'-Methylenedioxyamphetamine hydrochloride; (-)-[6'- ³ H ₂ (n)]MDA				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 217.68 DEA schedule : 1		
Catalog number : 7400-002			CASRN : 64057-70-1	
Name : (+)-3,4-Methylenedioxyamphetamine hydrochloride; (+)-MDA HCl				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 215.68 DEA schedule : 1		
Catalog number : 7400-004				
Name : (+)-[6'- ³ H(n)]-3',4'-Methylenedioxyamphetamine hydrochloride; (+)-[6'- ³ H(n)]MDA				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 215.68 DEA schedule : 1		
Notes : Hallucinogen (tritium-labeled).				
Catalog number : 7400-001			CASRN : 6292-91-7	
Name : (±)-3,4-Methylenedioxyamphetamine hydrochloride; MDA HCl				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 215.68 DEA schedule : 1		
References : Merck Index, 14th ed., Monograph 5765.				
Catalog number : 7400-005				
Name : [6- ³ H ₂ (n)]-3,4-Methylenedioxyamphetamine hydrochloride; [6- ³ H ₂ (n)]MDA				
Mol. formula : C ₁₀ H ₁₄ ClNO ₂		FW : 217.68 DEA schedule : 1		

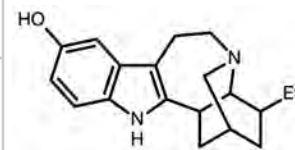
Catalog number : 7411-001			CASRN : 3706-26-1		
Name : (±)-4-Methoxyamphetamine hydrochloride					
Mol. formula : C ₁₀ H ₁₆ ClNO		FW : 201.70			DEA schedule : 1
Catalog number : 7411-010			CASRN : 17862-85-0		
Name : (±)-3-Methoxyamphetamine hydrochloride					
Mol. formula : C ₁₀ H ₁₆ ClNO		FW : 201.70			DEA schedule : 1
Catalog number : 7411-011			CASRN : 15402-84-3		
Name : (±)-2-Methoxyamphetamine hydrochloride; NDMP					
Mol. formula : C ₁₀ H ₁₆ ClNO		FW : 201.70			DEA schedule : 1
Catalog number : 7401-002					
Name : [2',6'- ³ H(n)]-3-Methoxy-4,5-methylenedioxyamphetamine hydrochloride; [2,6- ³ H(n)]MMDA					
Mol. formula : C ₁₁ H ₁₆ ClNO ₃		FW : 249.72			DEA schedule : 1
Catalog number : 7390-002					
Name : (±)-[2,6- ³ H ₂ (n)]-3,4,5-Trimethoxyamphetamine hydrochloride					
Mol. formula : C ₁₂ H ₂₀ ClNO ₃		FW : 265.76			DEA schedule : 1
Catalog number : 7390-003					
Name : (±)-2,4,6-Trimethoxyamphetamine hydrochloride					
Mol. formula : C ₁₂ H ₂₀ ClNO ₃		FW : 261.47			DEA schedule : 1
Catalog number : 7390-001			CASRN : 5688-80-2		
Name : (±)-3,4,5-Trimethoxyamphetamine hydrochloride; TMA					
Mol. formula : C ₁₂ H ₂₀ ClNO ₃		FW : 261.47			DEA schedule : 1

Hallucinogens: Ergot alkaloids**Catalog number :** 7315-014**CASRN :** 2126-78-5**Name :** (+)-Isolysergic acid diethylamide**Mol. formula :** C₂₀H₂₅N₃O**FW :** 323.20**DEA schedule :** 1**Catalog number :** 7315-013**CASRN :** 101692-69-7**Name :** (+)-Lysergic acid methyl-*n*-propylamide tartrate; LAMPA**Mol. formula :** (C₂₀H₂₅N₃O)₂**FW :** 796.33**DEA schedule :** 1**Catalog number :** 7315-004**CASRN :** 17676-08-3**Name :** (+)-Lysergic acid diethylamide (+)-tartrate (2:1); (+)-LSD (+)-tartrate**Mol. formula :** (C₂₀H₂₅N₃O)₂**FW :** 796.93**DEA schedule :** 1**References :** *Merck Index*, 14th ed., Monograph 5634.**Catalog number :** 7315-008**CASRN :** 50-37-3**Name :** (+)-Lysergic acid diethylamide; (+)-LSD**Mol. formula :** C₂₀H₂₅N₃O**FW :** 323.42**DEA schedule :** 1**References :** *Merck Index*, 14th ed., Monograph 5634.**Catalog number :** 7315-009**CASRN :** 24656-41-5**Name :** (+)-Lysergic acid diethylamide hydrogen maleate**Mol. formula :** C₂₀H₂₅N₃O**FW :** 439.49**DEA schedule :** 1**Catalog number :** 7315-010**CASRN :** 4004-43-7**Name :** (+)-2-Bromo-LSD (+)-hydrogen tartrate; BOL-148**Mol. formula :** C₂₀H₂₄BrN₃O**FW :** 552.44**DEA schedule :** 1**Notes :** *Serotonin antagonist without the hallucinogenic activity of LSD***References :** *Merck Index*, 14th ed., Monograph 1423.

Catalog number : 7315-007			CASRN : 377756-22-4	
Name : [2- ³ H]-(+)-Lysergic acid diethylamide; (+)-[3H]-LSD				
Mol. formula : C ₂₀ H ₂₅ N ₃ O		FW : 323.42 DEA schedule : 1		
Catalog number : 7315-006			CASRN : 51064-36-9	
Name : (±)-Lysergic acid diethylamide; (±)-LSD				
Mol. formula : C ₂₀ H ₂₅ N ₃ O		FW : 323.42 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 5634.				
Hallucinogens: Ibogaine Class				
Catalog number : 7260-003				
Name : 11-Iodoibogaine				
Mol. formula : C ₂₀ H ₂₅ IN ₂ O		FW : 436.33 DEA schedule : 1		
Catalog number : 7260-005				
Name : [12- ³ H]-Noribogaine				
Mol. formula : C ₁₉ H ₂₄ N ₂ O		FW : 296.41 DEA schedule : 0		
Notes : <i>Ibogaine-like effect without tremors (tritium-labeled).</i>				
Catalog number : 7260-001			CASRN : 36415-61-9	
Name : Ibogaine hydrochloride				
Mol. formula : C ₂₀ H ₂₇ ClN ₂ O		FW : 346.89 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 4875.				
Catalog number : 7260-002			CASRN : 146560-35-2	
Name : Tritium-labeled Ibogaine; [12- ³ H]Ibogaine				
Mol. formula : C ₂₀ H ₂₆ N ₂ O		FW : 312.44 DEA schedule : 1		
Notes : <i>Hallucinogen (tritium-labeled).</i>				

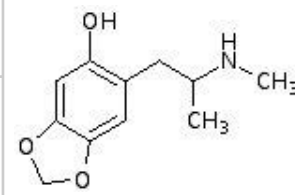
4 – Hallucinogens

Catalog number : 7260-006	CASRN : 481-88-9
Name : Noribogaine	
Mol. formula : $C_{19}H_{24}N_2O$	FW : 292.42 DEA schedule : 0
Notes : <i>Ibogaine-like effect without tremors</i>	
References : Glick, SD; Pearl, SM; Cai, J; Maisonneuve, IM <i>Brain Res</i> 1996 , 713, 294-7.	

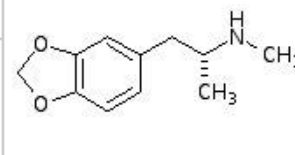


Hallucinogens: Methamphetamine Class

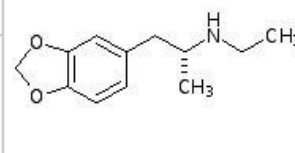
Catalog number : 7401-004	
Name : (±)-6-Hydroxy-3,4-methylenedioxymethamphetamine fumarate	
Mol. formula : $C_{26}H_{34}N_2O_{10}$	FW : 534.56 DEA schedule : 1



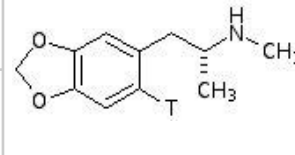
Catalog number : 7405-003	CASRN : 69558-31-2
Name : (-)-3,4-Methylenedioxymethamphetamine hydrochloride; (-)-MDMA	
Mol. formula : $C_{11}H_{16}ClNO_2$	FW : 229.71 DEA schedule : 1



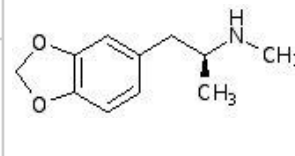
Catalog number : 7404-003	CASRN : 82801-81-8
Name : (-)-N-Ethyl-3,4-methylenedioxyamphetamine hydrochloride	
Mol. formula : $C_{12}H_{18}ClNO_2$	FW : 243.73 DEA schedule : 1
Notes : <i>CNS stimulant</i>	

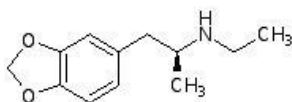


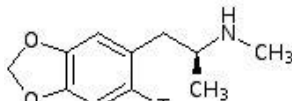
Catalog number : 7405-005	CASRN : 4764-17-4
Name : (-)-[6'- 3H]-3',4'-Methylenedioxymethamphetamine hydrochloride; (-)-[3H]MDMA	
Mol. formula : $C_{11}H_{16}ClNO_2$	FW : 231.71 DEA schedule : 1
Notes : <i>CNS stimulant; hallucinogen (tritium-labeled).</i>	

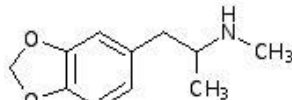


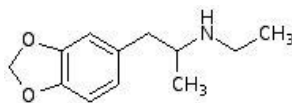
Catalog number : 7405-002	CASRN : 69558-32-3
Name : (+)-3,4-Methylenedioxymethamphetamine hydrochloride; (+)-MDMA	
Mol. formula : $C_{11}H_{16}ClNO_2$	FW : 229.71 DEA schedule : 1

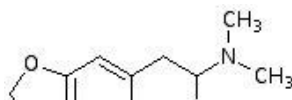


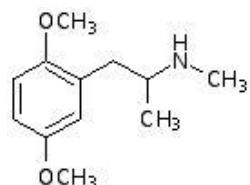
Catalog number : 7404-002			CASRN : 82801-81-8	
Name : (+)-N-Ethyl-3,4-methylenedioxyamphetamine hydrochloride				
Mol. formula : C ₁₂ H ₁₈ ClNO ₂ FW : 243.73 DEA schedule : 1				
Notes : CNS stimulant				

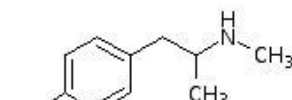
Catalog number : 7405-006				
Name : (+)-[6'- ³ H(n)]-3',4'-Methylenedioxymethamphetamine hydrochloride; (+)-[³ H]MDMA				
Mol. formula : C ₁₁ H ₁₆ ClNO ₂ FW : 231.71 DEA schedule : 1				
Notes : CNS stimulant; hallucinogen (tritium-labeled).				

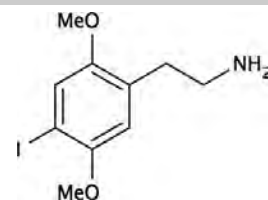
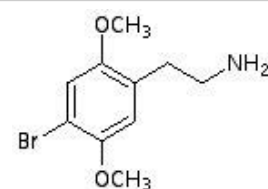
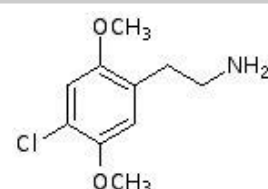
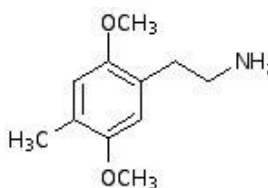
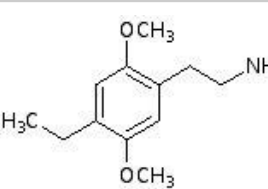
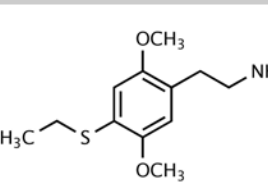
Catalog number : 7405-001			CASRN : 64057-70-1	
Name : (±)-3,4-Methylenedioxymethamphetamine hydrochloride; MDMA				
Mol. formula : C ₁₁ H ₁₆ ClNO ₂ FW : 229.71 DEA schedule : 1				
References : Merck Index, 14th ed., Monograph 5767.				

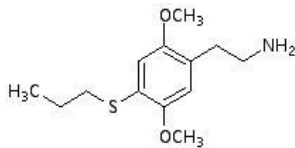
Catalog number : 7404-001			CASRN : 82801-81-8	
Name : (±)-N-Ethyl-3,4-methylenedioxyamphetamine hydrochloride				
Mol. formula : C ₁₂ H ₁₈ ClNO ₂ FW : 243.73 DEA schedule : 1				
Notes : CNS stimulant				

Catalog number : 7404-004				
Name : (±)-N,N-Dimethyl-3,4-methylenedioxyamphetamine hydrochloride				
Mol. formula : C ₁₂ H ₁₈ ClNO ₂ FW : 243.73 DEA schedule : 1				
Notes : CNS stimulant				

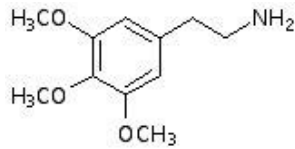
Catalog number : 7395-005				
Name : (±)-2,5-Dimethoxymethamphetamine hydrochloride				
Mol. formula : C ₁₂ H ₂₀ ClNO ₂ FW : 245.75 DEA schedule : 1				

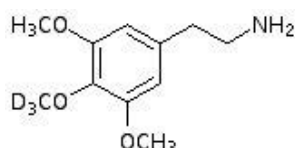
Catalog number : 7411-012			CASRN : 370-14-9	
Name : (±)-4-Hydroxymethamphetamine hydrochloride; Pholedrine				
Mol. formula : C ₁₀ H ₁₆ ClNO FW : 201.70 DEA schedule : 2				
References : Merck Index, 14th ed., Monograph 4810.				

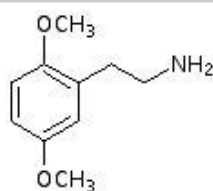
Hallucinogens: Phenethylamine Class**Catalog number :** 7518-001**CASRN :** 69587-11-7 (base)**Name :** 2,5-Dimethoxy-4-iodo-β-phenethylamine hydrochloride; 2C-I**Mol. formula :** C₁₀H₁₅ClINO₂**FW :** 343.59**DEA schedule :** 1**Catalog number :** 7392-012**CASRN :** 56281-37-9**Name :** 4-Bromo-2,5-dimethoxy-β-phenethylamine hydrochloride; 2C-B**Mol. formula :** C₁₀H₁₅BrClNO₂**FW :** 296.59**DEA schedule :** 1**References :** *Merck Index*, 14th ed., Monograph 1908.**Catalog number :** 7519-001**CASRN :** 88441-14-9**Name :** 4-Chloro-2,5-dimethoxy-β-phenethylamine hydrochloride; 2C-C**Mol. formula :** C₁₀H₁₅Cl₂NO₂**FW :** 252.14**DEA schedule :** 0**References :** Jacob, P., 3rd; Shulgin AT *NIDA Res Monogr* 1994, 146, 74-91.**Catalog number :** 7508-001**CASRN :** 25505-65-1**Name :** 2,5-Dimethoxy-4-methyl-β-phenethylamine hydrochloride; 2C-D**Mol. formula :** C₁₁H₁₈ClNO₂**FW :** 231.72**DEA schedule :** 0**References :** Jacob, P., 3rd; Shulgin AT *NIDA Res Monogr* 1994, 146, 74-91.**Catalog number :** 7509-001**CASRN :** 71539-34-9**Name :** 2,5-Dimethoxy-4-ethyl-β-phenethylamine hydrochloride; 2C-E**Mol. formula :** C₁₂H₂₀ClNO₂**FW :** 245.75**DEA schedule :** 0**References :** Jacob, P., 3rd; Shulgin AT *NIDA Res Monogr* 1994, 146, 74-91.**Catalog number :** 7385-001**CASRN :** 207740-24-7 (base)**Name :** 2,5-Dimethoxy-4-ethylthio-β-phenethylamine hydrochloride; 2C-T-2**Mol. formula :** C₁₂H₂₀ClNO₂S**FW :** 277.81**DEA schedule :** 0**References :** Fantegrossi, WE; *et al. Psychopharmacology (Berl)* 2005, 181, 496-503.

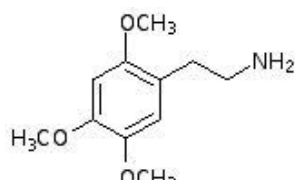
Catalog number : 7348-001		CASRN : 207740-26-9		
Name : 2,5-Dimethoxy-4- <i>n</i> -propylthio-β-phenethylamine hydrochloride; 2C-T-7				
Mol. formula : C ₁₃ H ₂₂ ClNO ₂ S	FW : 291.84			DEA schedule : 1
References : Fantegrossi, WE; <i>et al. Psychopharmacology (Berl)</i> 2005, 181, 496-503.				

Catalog number : 7381-001		CASRN : 832-92-8	
Name : Mescaline hydrochloride			
Mol. formula : C ₁₁ H ₁₈ ClNO ₃	FW : 247.72	DEA schedule :	1
References : <i>Merck Index</i> , 14th ed., Monograph 5905.			



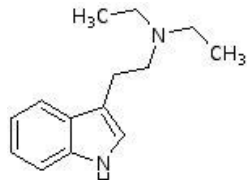
Catalog number : 7381-002			
Name : [4'-OC ² H ₃]Mescaline hydrochloride			
Mol. formula : C ₁₁ H ₁₈ ClNO ₃	FW : 247.72		
DEA schedule : 1			

Catalog number : 7381-011		CASRN : 3166-74-3		
Name : 2,5-Dimethoxy-β-phenethylamine hydrochloride				
Mol. formula : C ₁₀ H ₁₆ ClNO ₂	FW : 217.70			DEA schedule : 0

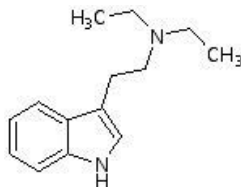
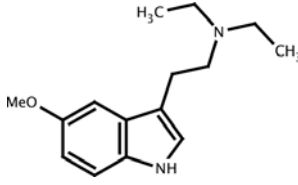
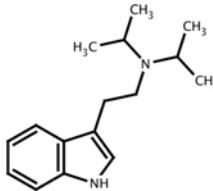
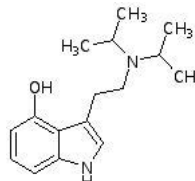
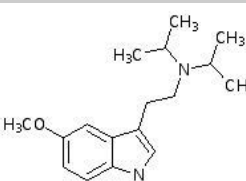
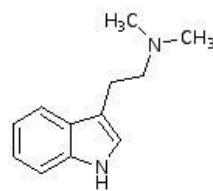
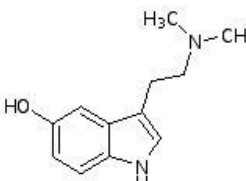
Catalog number : 7381-010		CASRN : 15394-83-9		
Name : 2,4,5-Trimethoxy-β-phenethylamine hydrochloride				
Mol. formula : C ₁₁ H ₁₈ ClNO ₃	FW : 247.72			DEA schedule : 1

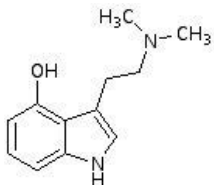
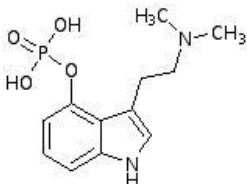
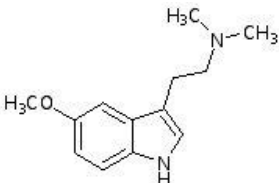
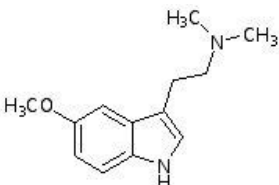
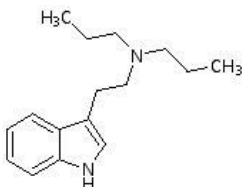
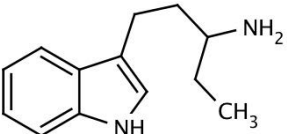
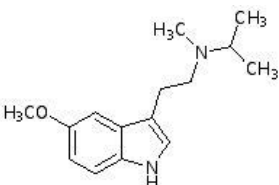
Hallucinogens: Tryptamine Class

Catalog number : 7434-001		CASRN : 20671-78-7	
Name : N,N-Diethyltryptamine fumarate; DET fumarate			
Mol. formula : C ₁₈ H ₂₄ N ₂ O ₄	FW : 332.40	DEA schedule : 1	
References : Heinze, WJ; Schlemmer, RF; Tyler, CB; Davis, JM <i>Biol Psychiatry</i> 1983, 18, 829-36.			

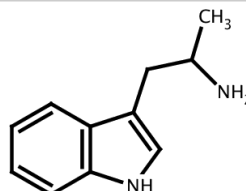
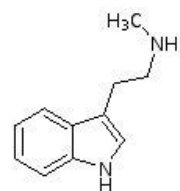
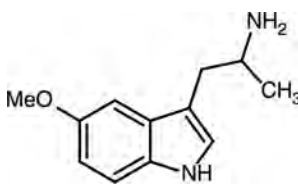


4 – Hallucinogens

Catalog number : 7434-002			CASRN : 61-51-8	
Name : N,N-Diethyltryptamine (base); DET				
Mol. formula : C ₁₄ H ₂₀ N ₂		FW : 216.33 DEA schedule : 1		
References : Heinze, WJ; Schlemmer, RF, Jr; Tyler, CB; Davis JM <i>Biol Psychiatry</i> 1983 , <i>18</i> , 829-36.				
Catalog number : 7525-000				
Name : 5-Methoxy-N,N-diethyltryptamine, 5-MeO-DET				
Mol. formula : C ₁₅ H ₂₂ N ₂ O		FW : 246.35 DEA schedule : 1		
References : Fumiko N, Ryouich N, Kanak S, Hisashi K, <i>Eur J Pharmacol</i> , 2007 , <i>559</i> (2-3), 132-137.				
Catalog number : 7522-000				
Name : N,N-Diisopropyltryptamine hydrochloride, DiPT				
Mol. formula : C ₁₆ H ₂₄ N ₂		FW : 244.38 DEA schedule : 1		
References : Fumiko N, Ryouich N, Kanak S, Hisashi K, <i>Eur J Pharmacol</i> , 2007 , <i>559</i> (2-3), 132-137.				
Catalog number : 7516-000				
Name : 4-Hydroxy-N,N-diisopropyltryptamine hydrochloride; 4-OH-DiPT				
Mol. formula : C ₁₆ H ₂₅ ClN ₂ O		FW : 296.84 DEA schedule : 0		
Notes : <i>Psilocibin analog.</i>				
References : Pichini, S; et al., <i>J Pharm Biomed Analysis</i> 2008 , <i>47</i> , 335-342.				
Catalog number : 7439-001				
Name : 5-Methoxy-N,N-diisopropyltryptamine hydrochloride; 5-MeO-DiPT; FOXY				
Mol. formula : C ₁₇ H ₂₇ ClN ₂ O		FW : 310.87 DEA schedule : 1		
References : Shulgin, AT; Carter MF <i>Commun Psychopharmacol</i> 1980 , <i>4</i> , 363-9.				
Catalog number : 7435-001				
Name : N,N-Dimethyltryptamine fumarate; DMT fumarate				
Mol. formula : C ₁₆ H ₂₀ N ₂ O ₄		FW : 304.35 DEA schedule : 1		
References : Barker, SA; Monti, JA; Christian, ST <i>Int Rev Neurobiol</i> 1981 , <i>22</i> , 83-110.				
Catalog number : 7433-001				
Name : Bufotenine (base); 5-Hydroxy-N,N-dimethyltryptamine; 5-OH-DMT				
Mol. formula : C ₁₂ H ₁₆ N ₂ O		FW : 204.26 DEA schedule : 1		
References : Emanuele, E; et al., <i>Neuro Endocrinol Lett</i> 2010 , <i>31</i> , 117-21.				

Catalog number : 7438-001			CASRN : 520-53-6	
Name : Psilocin				
Mol. formula : C ₁₂ H ₁₆ N ₂ O		FW : 204.27 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 7925.				
Catalog number : 7437-001			CASRN : 520-52-5	
Name : Psilocybin				
Mol. formula : C ₁₂ H ₁₇ N ₂ O ₄		FW : 284.25 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 7926.				
Catalog number : 7431-001			CASRN : 1019-45-0	
Name : 5-Methoxy-N,N-dimethyltryptamine (base); 5-MeO-DMT				
Mol. formula : C ₁₃ H ₁₈ N ₂ O		FW : 218.29 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 7926.				
Catalog number : 7431-002			CASRN : 1019-45-0	
Name : 5-Methoxy-N,N-dimethyltryptamine fumarate; 5-MeO-DMT fumarate				
Mol. formula : C ₃₀ H ₄₀ N ₄ O ₆		FW : 552.67 DEA schedule : 1		
References : <i>Merck Index</i> , 14th ed., Monograph 7926.				
Catalog number : 7436-001			CASRN : 7558-73-8	
Name : N,N-Dipropyltryptamine hydrochloride				
Mol. formula : C ₁₆ H ₂₅ ClN ₂		FW : 280.84 DEA schedule : 0		
References : <i>Merck Index</i> , 14th ed., Monograph 7926.				
Catalog number : 7249-001			CASRN : 2235-90-7	
Name : α-Ethyltryptamine acetate; AET				
Mol. formula : C ₁₄ H ₂₀ N ₂ O ₂		FW : 248.33 DEA schedule : 1		
References : <i>Merck Index</i> , 13th ed., Monograph 3924.				
Catalog number : NOCD-001			CASRN : 96096-54-7	
Name : 5-Methoxy-N-isopropyl-N-methyltryptamine hydrochloride; 5-MeO-MiPT				
Mol. formula : C ₁₅ H ₂₂ N ₂ O • HCl		FW : 282.81 DEA schedule : 1		
References : Repke, DB; Grotjahn DB; Shulgin AT, <i>J Med Chem</i> 1985 , 28, 892-6; Nagai, F; <i>et al.</i> , <i>Eur J Pharmacol</i> 2007 , 559(2-3), 132-137.				

4 – Hallucinogens

Catalog number : 7432-001			CASRN : 299-26-3
Name : α -Methyltryptamine; AMT			
Mol. formula : C ₁₁ H ₁₄ N ₂	FW : 174.24	DEA schedule : 1	
Catalog number : 7435-002			CASRN : 61-49-4
Name : N-Methyltryptamine fumarate			
Mol. formula : C ₁₅ H ₁₈ N ₂ O ₄	FW : 290.31	DEA schedule : 0	
Catalog number : 7506-001			CASRN : 1137-04-8
Name : 5-Methoxy- α -methyltryptamine; 5-MeO-AMT			
Mol. formula : C ₁₂ H ₁₆ N ₂ O	FW : 204.27	DEA schedule : 0	
References : Jacob, P; Shulgin AT <i>NIDA Res Monogr</i> 1994, 146, 74-91.			

Nicotinics: Anabaseine Class

Catalog number : NICT-011

CASRN : 3471-05-4

Name : Anabaseine dihydrochloride

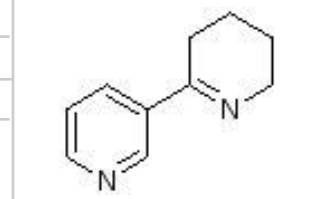
Mol. formula : $C_{10}H_{14}Cl_2N_2$

FW : 233.14

DEA schedule : 0

Notes : Nicotinic $\alpha 7$ receptor agonist.

References : Wheeler, JW; *et al. Science* **1981**, *211*, 1051-1052.
 Kem WR; Mahnir VM; Papke RL; Lingle CJ *J Pharmacol Exp Ther* **1997**, *283*, 979-92.



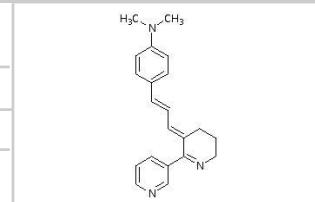
Catalog number : NICT-012

Name : (E,E)-3-(4'-Dimethylaminocinnamylidene)anabaseine dihydrochloride; DMAC

Mol. formula : $C_{21}H_{25}Cl_2N_3$

FW : 390.36

DEA schedule : 0

Notes : Selective $\alpha 7$ nicotinic acetylcholine receptor agonist.References : de Fiebre, C; *et al. Mol Pharmacol* **1995**, *47*, 164-171.**Nicotinics: Epibatidine Class**

Catalog number : NICT-002

CASRN : 152378-30-8

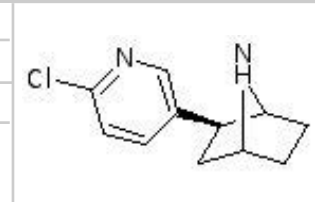
Name : (-)-Epibatidine hydrochloride

Mol. formula : $C_{11}H_{14}Cl_2N_2$

FW : 245.15

DEA schedule : 0

References : Qian C; Li T; Shen TY; Libertine-Garahan L; Eckman J; Biftu T; Ip S *Eur J Pharmacol* **1993**, *250*, R13-4.
 Badio B; Daly JW *Mol Pharmacol* **1994**, *45*, 563-9.



Catalog number : NICT-003

CASRN : 140111-52-0

Name : (+)-Epibatidine hydrochloride

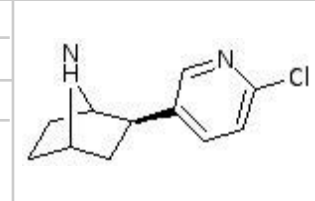
Mol. formula : $C_{11}H_{14}Cl_2N_2$

FW : 245.15

DEA schedule : 0

Notes : Epibatidine natural isomer.

References : Qian C; Li T; Shen TY; Libertine-Garahan L; Eckman J; Biftu T; Ip S *Eur J Pharmacol* **1993**, *250*, R13-4.
 Badio B; Daly JW *Mol Pharmacol* **1994**, *45*, 563-9.



Catalog number : NICT-001

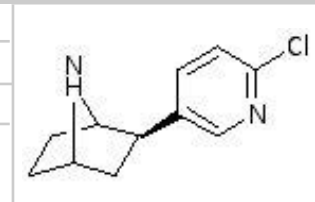
Name : (±)-Epibatidine hydrochloride

Mol. formula : $C_{11}H_{14}Cl_2N_2$

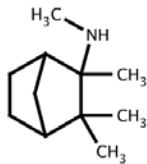
FW : 245.15

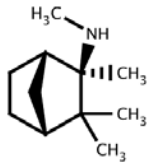
DEA schedule : 0

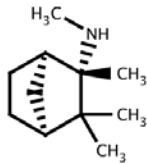
Notes : Potent nicotinic receptor agonist and non-opioid analgesic.

References : Sullivan, JP; *et al. J Pharmacol Exp Ther* **1994**, *271*, 624-31.

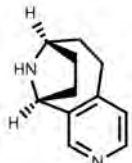
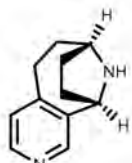
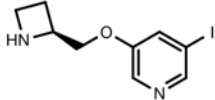
Nicotinics: Mecamylamine Class

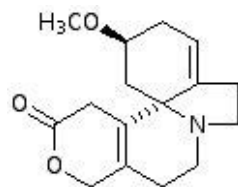
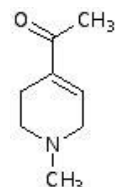
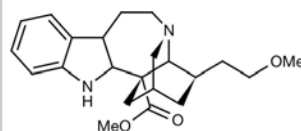
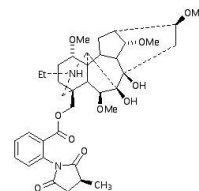
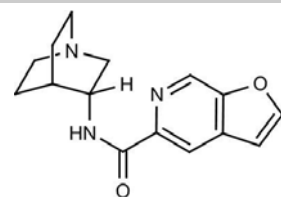
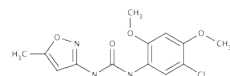
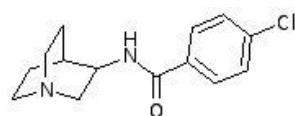
Catalog number : NICT-004			CASRN : 826-39-1
Name : (±)-Mecamylamine HCl			
Mol. formula : C ₁₁ H ₂₂ ClN	FW : 203.75	DEA schedule : 0	
Notes : <i>Non-competitive nicotinic acetylcholine receptor antagonist.</i>			
References : Sanberg, PR; <i>et al. Int J Neurosci</i> 2001 , 109, 81-90.			

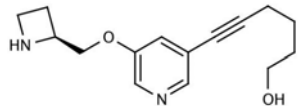
Catalog number : NOCD-123			CASRN : 107596-31-6
Name : (-)-(R)-Mecamylamine HCl			
Mol. formula : C ₁₁ H ₂₂ ClN	FW : 203.75	DEA schedule : 0	
Notes : <i>Non-competitive nicotinic acetylcholine receptor antagonist.</i>			
References : Suchocki, JA, <i>Journal of Medicinal Chemistry</i> 1991 , 34(3), 1003-10. Schoenenberger, B, <i>Helvetica Chimica Acta</i> 1986 , 69(2), 283-7.			

Catalog number : NICT-018			CASRN : 107596-30-5
Name : (+)-(S)-Mecamylamine HCl			
Mol. formula : C ₁₁ H ₂₂ ClN	FW : 203.75	DEA schedule : 0	
Notes : <i>Non-competitive nicotinic acetylcholine receptor antagonist.</i>			
References : Stone, CA; <i>et al., J. Med. Chem.</i> , 34 , 1003 (1991).			

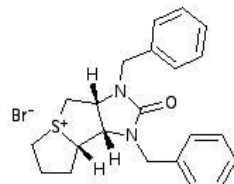
Nicotinics: Miscellaneous

Catalog number : NOCD-142 new			CASRN : 895518-77-1
Name : (+)-PHT dihydrochloride			
Mol. formula : C ₁₁ H ₁₆ Cl ₂ N ₂	FW : 247.17	DEA schedule : 0	
Notes : <i>Conformationally rigid nicotine analog.</i>			
References : Kanne, D. B.; Ashworth, D. J.; Cheng, M. T.: Mutter, L. C.; Abood, L. G. <i>J. Am. Chem. Soc.</i> 1986 , 108, 7864. Carroll FI, Hu X, Navarro HA, Deschamps J, Abdrakhmanova GR, Damaj MI, Martin BR <i>J. Med. Chem.</i> 2006 . 49. 3244.			
Catalog number : NOCD-122			CASRN : 895518-76-0
Name : (-)-PHT dihydrochloride			
Mol. formula : C ₁₁ H ₁₆ Cl ₂ N ₂	FW : 247.17	DEA schedule : 0	
Notes : <i>Conformationally rigid nicotine analog.</i>			
References : Kanne, D. B.; Ashworth, D. J.; Cheng, M. T.: Mutter, L. C.; Abood, L. G. <i>J. Am. Chem. Soc.</i> 1986 , 108, 7864. Carroll FI, Hu X, Navarro HA, Deschamps J, Abdrakhmanova GR, Damaj MI, Martin BR <i>J. Med. Chem.</i> 2006 . 49. 3244.			
Catalog number : NICT-019			CASRN : 1217837-17-6
Name : 5-I-A85380			
Mol. formula : C ₉ H ₁₁ IN ₂ O • 2 HCl	FW : 363.02	DEA schedule : 0	
Notes : <i>α4β2-selective nAChR ligand</i>			
References : Koren, <i>et al., J Med Chem</i> 1998 , 41, 3690. Muhkin, <i>et al., Mol Pharmacol</i> 2000 , 57, 642.			

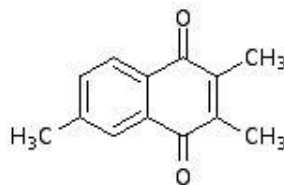
Catalog number : NICT-006			CASRN : 29734-68-7	
Name : Dihydro-β-erythroidine hydrobromide				
Mol. formula : C ₁₆ H ₂₂ BrNO ₃		FW : 356.26 DEA schedule : 0		
References : <i>Merck Index</i> , 14th ed., Monograph 3175.				
Catalog number : NICT-005			CASRN : 100752-88-3	
Name : Isoarecolone hydrochloride				
Mol. formula : C ₈ H ₁₄ ClNO		FW : 175.66 DEA schedule : 0		
Notes : <i>Nicotinic receptor agonist.</i>				
References : Mirza, NR; <i>et al. Eur J Pharmacol</i> 1996 , 295, 207-10. Shoaib, M <i>Psychopharmacology (Berl)</i> 2006 , 188, 252-7.				
Catalog number : NOCD-012			CASRN : 308123-60-6	
Name : 18-Methoxycoronaridine; 18-MC				
Mol. formula : C ₂₂ H ₃₀ N ₂ O ₃		FW : 370.49 DEA schedule : 0		
Notes : <i>Selective α3β4 nicotinic antagonist.</i>				
References : Glick, SD; <i>et al. Brain Res</i> 1996 , 719, 29-35.				
Catalog number : NICT-007			CASRN : 21019-30-7	
Name : Methyllycaconitine citrate; MLA				
Mol. formula : C ₄₃ H ₅₈ N ₂ O ₁₇		FW : 928.98 DEA schedule : 0		
Notes : <i>Nicotinic receptor antagonist.</i>				
References : Ward, JM; <i>et al. FEBS Lett</i> 1990 , 270, 45-8. Alkondon, M; <i>et al. Mol Pharmacol</i> 1992 , 41, 802-8.				
Catalog number : NOCD-013			CASRN : 478149-53-0	
Name : PHA-543613				
Mol. formula : C ₁₅ H ₁₉ Cl ₂ N ₃ O ₂		FW : 344.24 DEA schedule : 0		
Notes : <i>α7 nicotinic acetylcholine receptor agonist</i>				
References : Wishka, DG; <i>et al. J Med Chem</i> 2006 , 49, 4425-36.				
Catalog number : NICT-017			CASRN : 501925-31-1	
Name : PNU-120596				
Mol. formula : C ₁₃ H ₁₄ ClN ₃ O ₄		FW : 311.72		
Notes : <i>Positive allosteric modulator of the α7 neuronal nicotinic acetylcholine receptor.</i>				
References : Hurst, RS; <i>et al. J Neurosci</i> 2005 , 25, 4396-405.				
Catalog number : NICT-016			CASRN : 123464-89-1	
Name : PNU-282987				
Mol. formula : C ₁₄ H ₁₀ Cl ₂ N ₂ O		FW : 310.21 DEA schedule : 0		
Notes : <i>Selective α7 nicotinic acetylcholine receptor agonist.</i>				
References : Hajos, M; <i>et al. J Pharmacol Exp Ther</i> 2005 , 312, 1213-22.				

Catalog number : MEDD-031		CASRN : 820231-95-6
Name : Sazetidine hydrochloride		
Mol. formula : C ₁₅ H ₂₂ ClN ₂ O ₂	FW : 333.26 DEA schedule : 0	
Notes : Selective α ₄ β ₂ nicotinic receptor agonist.		
References : Xiao, et al., <i>Mol Pharmacol</i> , 2006 , 70, 1454. Zwart, et al., <i>Mol Pharmacol</i> , 2008 , 73 1843.		

Catalog number : NICT-013			
Name : Trimethaphan bromide			
Mol. formula : C ₂₂ H ₂₅ BrN ₂ OS		FW : 445.43	DEA schedule : 0
Notes : <i>Nicotinic antagonist; antihypertensive.</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 9707.			

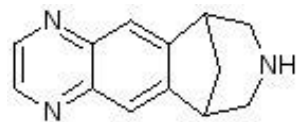
c1ccc(cc1)CN2C(=O)N(Cc3ccccc3)C2[C@H]4C[C@H](C5=CC=CC=C5)S4.[Br-]

Catalog number : NICT-014			
Name : 2,3,6-Trimethyl-1,4-napthoquinone			
Mol. formula : C ₁₃ H ₁₂ O ₂		FW : 200.24	DEA schedule : 0

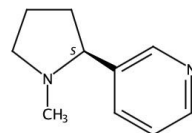


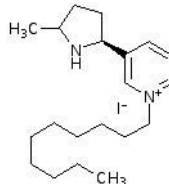
The chemical structure is 2,3,6-trimethyl-1,4-naphthoquinone. It consists of a naphthoquinone core, which is a bicyclic system with two fused six-membered rings. The right-hand ring is a quinone, featuring two carbonyl groups (C=O) at the 1 and 4 positions. Methyl groups (CH₃) are attached to the 2, 3, and 6 positions of this ring. The left-hand ring is a benzene ring, fused to the quinone ring at the 5 and 8 positions. A methyl group (H₃C) is attached to the 7 position of the benzene ring.

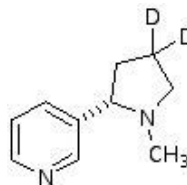
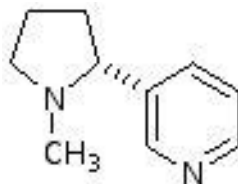
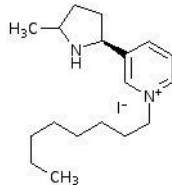
Catalog number : NOCD-046			CASRN : 249296-44-4
Name : Varenicline dihydrochloride			
Mol. formula : C ₁₃ H ₁₅ Cl ₂ N ₃		FW : 288.685	DEA schedule : 0
Notes : <i>α4β2 nicotinic receptor partial agonist.</i>			
References : Coe, JW; et al. <i>J Med Chem</i> 2005 , 48, 3474–7.			



Nicotinics: Nicotine Class

Catalog number : NICT-020		new	CASRN : 65-31-6	
Name : (-)-Nicotine ditartrate				
Mol. formula : C ₁₈ H ₂₆ N ₂ O ₁₂		FW : 462.41	DEA schedule : 0	
				

Catalog number : NICT-009			
Name : (-)-N-Decylnicotinium iodide (-)-di- <i>p</i> -toluoyl-L-tartrate; NDNI			
Mol. formula : C ₄₀ H ₅₃ IN ₂ O ₈		FW : 816.77	DEA schedule : 0
			

Catalog number : NICT-015			CASRN : 121949-85-7	
Name : (-)-Nicotine-4,4-d ₂ (-)-di- <i>p</i> -toluoyl-L-tartrate				
Mol. formula : C ₃₀ H ₃₂ N ₂ O ₈	FW : 550.60	DEA schedule : 0		
References : Jacob, PJ <i>Labelled Comp Radiopharm</i> 1988 , 25, 1117-28.				
Catalog number : NICT-008			CASRN : 163804-20-4	
Name : (+)-Nicotine (+)-di- <i>p</i> -toluoyl-D-tartrate				
Mol. formula : C ₃₀ H ₃₂ N ₂ O ₈	FW : 548.58	DEA schedule : 0		
Catalog number : NICT-010				
Name : (-)-N-Octylnicotinium iodide (-)-di- <i>p</i> -toluoyl-L-tartrate; NONI				
Mol. formula : C ₃₈ H ₄₉ IN ₂ O ₈	FW : 788.72	DEA schedule : 0		



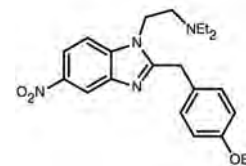
Opioids: Benzodiazole Class

Catalog number : 9624-002

Name : Etonitazene

Mol. formula : $C_{22}H_{28}N_4O_3$

FW : 396.48 DEA schedule : 1

Notes : *Narcotic analgesic; potent μ opiate receptor agonist*References : *Merck Index*, 14th ed., Monograph 3883.

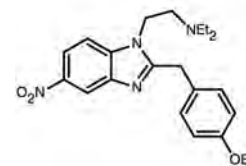
Catalog number : 9624-001

CASRN : 911-65-9

Name : Etonitazene hydrochloride

Mol. formula : $C_{22}H_{29}ClN_4O_3$

FW : 432.95 DEA schedule : 1

Notes : *Narcotic analgesic; potent μ opiate receptor agonist*References : *Merck Index*, 14th ed., Monograph 3883.

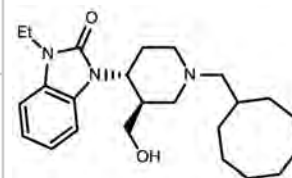
Catalog number : NOCD-057

CASRN : 361343-48-8

Name : (+)-J-113397

Mol. formula : $C_{24}H_{38}ClN_3O_2$

FW : 454.05 DEA schedule : 0

Notes : *Nociceptin/orphanin FQ (NOP) receptor antagonist.*References : Kawamoto H; *et al. Tetrahedron* **2001**, 57, 981-986.
Kawamoto H; *et al. J Med Chem* **1999**, 42, 5061-3.**Opioids: Caged**

Catalog number : 9652-071

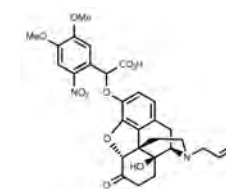
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CASRN : n/a

Name : CNV-NLX

Mol. formula : $C_{29}H_{30}N_2O_{10}$

FW : 566.56

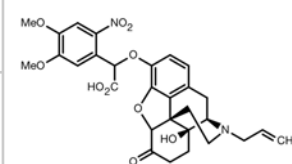
Notes : *"Caged" opioid antagonist.*References : M. R. Banghart, J. T. Williams, R. C. Shah, L. D. Lavis, B. L. Sabatini, *Mol Pharmacol.* 84, 687-695 (2013); M. R. Bruchas, B. L. Roth, *Trends in Pharmacological Sciences.* 37, 279-289 (2016).

Catalog number : MPSP-120

Name : (Carboxynitroveratryl)naloxone; CNV-NLX

Mol. formula : $C_{29}H_{30}N_2O_{10}$

FW : 566.47 DEA schedule : 0

Notes : *Photoactivatable analog of naloxone.*References : Banghart, MR; *et al., Mol Pharmacol* **2013**, 84, 687-95.

Opioids: Cyclohexyldiamine Class

Catalog number : NOCD-064

CASRN : 67198-13-4

Name : U50,488H

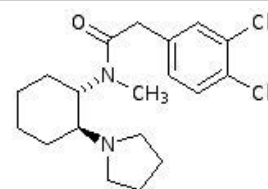
Mol. formula : $C_{20}H_{30}Cl_2N_2O_4S$

FW : 465.44

DEA schedule : 0

Notes : *Kappa-opioid receptor agonist.*

References : Vonvoigtlander, PF; *et al. J Pharmacol Exp Ther* **1983**, 224, 7-12.
 Negus, SS; *et al. J Pharmacol Exp Ther* **1997**, 282, 44-55.
 Taylor, CC; *et al. J Pharmacol Exp Ther* **1997**, 280, 416-21.



Catalog number : NOCD-065

CASRN : 96744-75-1

Name : U69,593

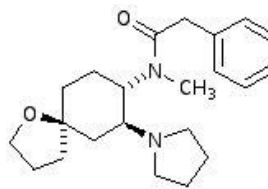
Mol. formula : $C_{22}H_{32}N_2O_2$

FW : 356.51

DEA schedule : 0

Notes : *Selective kappa-opioid agonist.*

References : Lahti, RA; *et al. Eur J Pharmacol* **1985**, 109, 281-4.
 Puig-Ramos, A; *et al. Behav Neurosci* **2008**, 122, 151-60.

**Opioids: Dihydromorphine Class**

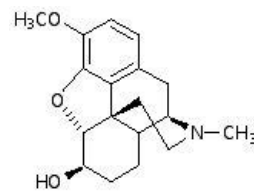
Catalog number : 9120-002

Name : Dihydroisocodeine

Mol. formula : $C_{18}H_{23}NO_3$

FW : 301.39

DEA schedule : 2

References : *Merck Index*, 14th ed., Monograph 3176.

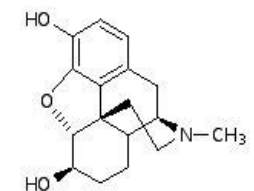
Catalog number : 9145-002

Name : Dihydroisomorphine

Mol. formula : $C_{17}H_{21}NO_3$

FW : 287.36

DEA schedule : 1



Catalog number : 9145-001

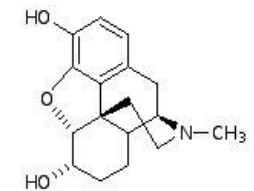
CASRN : 509-60-4

Name : Dihydromorphine

Mol. formula : $C_{17}H_{21}NO_3$

FW : 287.36

DEA schedule : 1

References : *Merck Index*, 14th ed., Monograph 3177.**Opioids: Fentanyl Class**

Catalog number : 9739-001

new

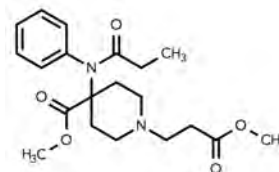
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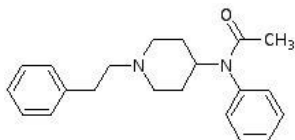
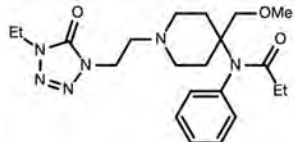
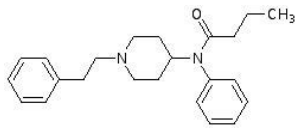
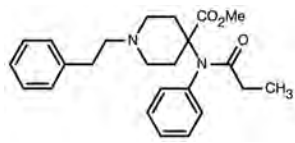
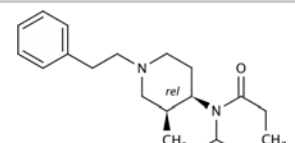
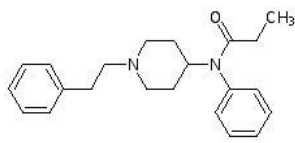
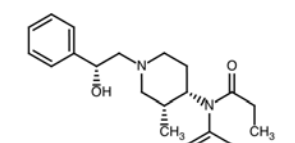
Name : Remifentanyl hydrochloride

Mol. formula : $C_{20}H_{29}ClN_2O_5$

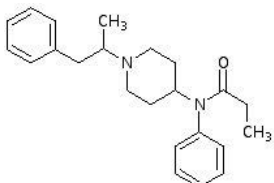
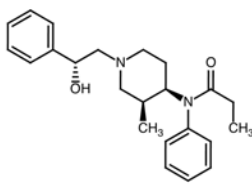
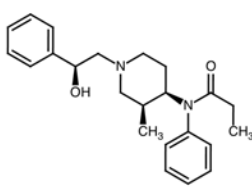
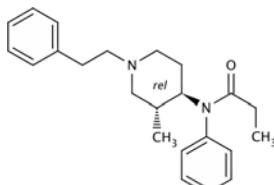
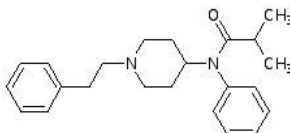
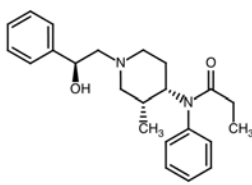
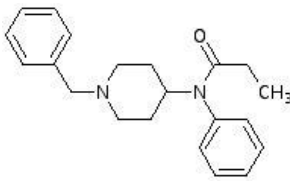
FW : 412.91

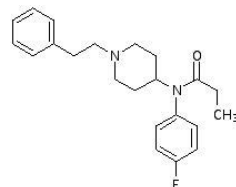
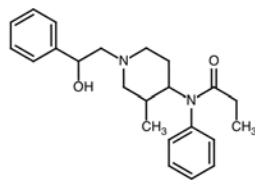
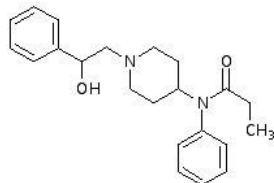
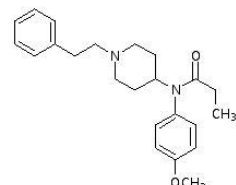
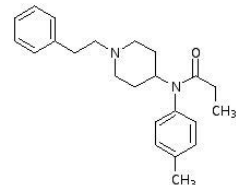
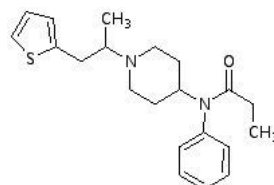
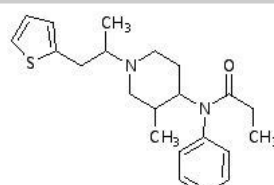
DEA schedule : 2

Notes : *Short-acting fentanyl analog.*

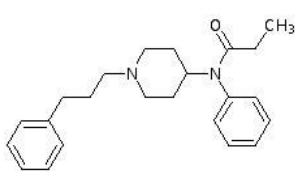
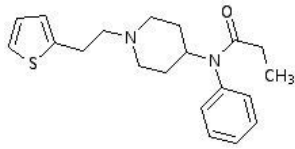
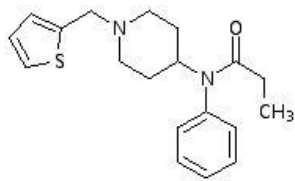
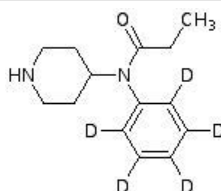
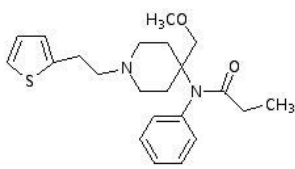
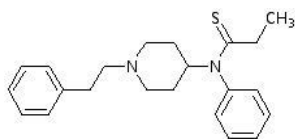
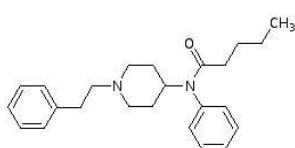
Catalog number : 9821-001			CASRN : 117332-89-5	
Name : Acetylfentanyl hydrochloride				
Mol. formula : C ₂₁ H ₂₇ ClN ₂ O		FW : 358.91 DEA schedule : 2		
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9737-001			CASRN : 69049-06-5	
Name : Alfentanil hydrochloride				
Mol. formula : C ₂₁ H ₃₃ ClN ₆ O ₃		FW : 452.98 DEA schedule : 2		
Notes : Analgesic, μ -Opioid agonist				
References : Merck Index, 14th ed., Monograph 236.				
Catalog number : 9822-001			CASRN : 1443-52-3	
Name : Butyrylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O		FW : 386.97 DEA schedule : 1		
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9743-001			CASRN : 59708-52-0 (parent)	
Name : Carfentanil hydrochloride				
Mol. formula : C ₂₄ H ₃₁ ClN ₂ O ₃		FW : 430.98 DEA schedule : 2		
Notes : Analgesic, μ -Opioid agonist. (see footnotes 1 & 2 in Section C)				
Catalog number : 9813-001			CASRN : 42045-86-3	
Name : ($\pm$)-cis-3-Methylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O		FW : 386.96 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9801-001			CASRN : 1443-54-5	
Name : Fentanyl hydrochloride				
Mol. formula : C ₂₂ H ₂₉ ClN ₂ O		FW : 372.92 DEA schedule : 2		
Notes : Analgesic, μ -Opioid agonist				
References : Merck Index, 14th ed., Monograph 4001. Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9831-003			CASRN : 155168-97-1	
Name : (-)-(βR,3R,4S)-β-Hydroxy-3-methylfentanyl oxalate				
Mol. formula : C ₂₅ H ₃₂ N ₂ O ₆		FW : 456.55 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Brine, GA; et al. <i>J Med Chem</i> 1995 , 38, 1547-57.				

6 – Opioids and Opioid-related

Catalog number : 9814-001			CASRN : 79704-88-4	
Name : α -Methylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O		FW : 386.97 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Ayres, WA; <i>et al. J Psychoactive Drugs</i> 1981 , 13, 91-3. Kram, TC; <i>et al. Anal Chem</i> 1981 , 53, 1379A-1386A. Brine, GA; <i>et al. J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9831-004			CASRN : 143553-99-5	
Name : (-)-($\beta R,3S,4R$)- β -Hydroxy-3-methylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O ₂		FW : 402.97 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Brine, GA; <i>et al. J Med Chem</i> 1995 , 38, 1547-57.				
Catalog number : 9831-005			CASRN : 155169-00-9	
Name : (+)-($\beta S,3S,4R$)- β -Hydroxy-3-methylfentanyl oxalate				
Mol. formula : C ₂₅ H ₃₂ N ₂ O ₆		FW : 456.55 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Brine, GA; <i>et al. J Med Chem</i> 1995 , 38, 1547-57.				
Catalog number : 9813-002			CASRN : 42045-87-4	
Name : ($\pm$)- <i>trans</i> -3-Methylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O		FW : 386.96 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
Catalog number : 9801-006			CASRN : 117332-90-8	
Name : Isopropylfentanyl hydrochloride				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O		FW : 386.96 DEA schedule : 2		
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9831-002			CASRN : 78995-14-9	
Name : (+)-($\beta S,3R,4S$)- β -Hydroxy-3-methylfentanyl hydrochloride; Ohmefentanyl; F 7302				
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O ₂		FW : 402.97 DEA schedule : 1		
Notes : Analgesic, μ -Opioid agonist				
References : Xu, H; Chen J; Chi, ZQ <i>Sci Sin [B]</i> 1985 , 28, 504-11. Brine, GA; <i>et al. J Med Chem</i> 1995 , 38, 1547-57.				
Catalog number : 9818-002			CASRN : 1474-02-8	
Name : Benzylfentanyl hydrochloride				
Mol. formula : C ₂₁ H ₂₇ ClN ₂ O		FW : 358.91 DEA schedule : 0		
Notes : Pharmacologically inert fentanyl analog.				
References : Brine, GA; <i>et al. J Heterocyclic Chem</i> 1989 , 26, 677. <i>Federal Register</i> 2010 , 75(124), 37300.				

Catalog number : 9812-001			CASRN : 90736-23-5
Name : p-Fluorofentanyl hydrochloride			
Mol. formula : C ₂₂ H ₂₈ ClFN ₂ O	FW : 390.93	DEA schedule : 1	
Catalog number : 9831-001			CASRN : 78995-14-9
Name : (±)-cis-β-Hydroxy-3-methylfentanyl hydrochloride			
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O ₂	FW : 402.97	DEA schedule : 1	
Notes : μ-Opioid agonist			
References : Brine, GA; et al. <i>J Med Chem</i> 1995, 38, 1547-57.			
Catalog number : 9830-001			CASRN : 78995-10-5
Name : β-Hydroxyfentanyl hydrochloride			
Mol. formula : C ₂₂ H ₂₉ ClN ₂ O ₂	FW : 388.93	DEA schedule : 1	
Notes : μ-Opioid agonist			
Catalog number : 9801-011			CASRN : 23609-41-8
Name : p-Anisoylfentanyl hydrochloride			
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O ₂	FW : 402.97	DEA schedule : 2	
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989, 26, 677.			
Catalog number : 9801-010			CASRN : 1807-12-1
Name : p-Tolylfentanyl hydrochloride			
Mol. formula : C ₂₃ H ₃₁ ClN ₂ O	FW : 386.97	DEA schedule : 2	
Catalog number : 9832-001			CASRN : 117332-94-2
Name : α-Methylthiofentanyl hydrochloride			
Mol. formula : C ₂₁ H ₂₉ ClN ₂ OS	FW : 392.99	DEA schedule : 1	
Notes : μ-Opioid agonist			
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989, 26, 677.			
Catalog number : 9833-001			CASRN : n/a
Name : 3-Methylthiofentanyl hydrochloride			
Mol. formula : C ₂₁ H ₂₉ ClN ₂ OS	FW : 392.99	DEA schedule : 1	
Notes : μ-Opioid agonist			
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989, 26, 677.			

6 – Opioids and Opioid-related

Catalog number : 9801-003			CASRN : 117332-88-4	
Name : N-[1-(3-Phenylpropyl)-4-piperidyl]-N-phenylpropanamide hydrochloride				
Mol. formula :	C ₂₃ H ₃₁ ClN ₂ O	FW : 386.96	DEA schedule :	2
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9835-001			CASRN : 79278-88-9	
Name : Thiofentanyl hydrochloride				
Mol. formula :	C ₂₀ H ₂₇ ClN ₂ OS	FW : 378.97	DEA schedule :	1
Notes : <i>μ</i> -Opioid agonist				
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9834-001			CASRN : 117332-93-1	
Name : Thenylfentanyl hydrochloride				
Mol. formula :	C ₁₉ H ₂₅ ClN ₂ OS	FW : 364.94	DEA schedule :	0
Notes : <i>Pharmacologically inert fentanyl analog.</i>				
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677. <i>Federal Register</i> 2010 , 75(124), 37300.				
Catalog number : 9801-008			CASRN : 1211527-23-9	
Name : [Phenyl- ² H ₅]N-4-Piperidyl-N-phenylpropanamide				
Mol. formula :	C ₁₄ H ₂₀ N ₂ O	FW : 237.36	DEA schedule :	2
Notes : <i>Precursor for the synthesis of mass-labeled fentanyl analogs.</i>				
Catalog number : 9740-001			CASRN : 60561-17-3	
Name : Sufentanil citrate				
Mol. formula :	C ₂₈ H ₃₈ N ₂ O ₉ S	FW : 578.67	DEA schedule :	2
Notes : <i>Analgesic, μ-Opioid agonist</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 8887. Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9801-002			CASRN : 117332-87-3	
Name : N-[1-(2-Phenylethyl)-4-piperidyl]-N-phenylthiopropionamide hydrochloride				
Mol. formula :	C ₂₂ H ₂₉ ClN ₂ S	FW : 389.01	DEA schedule :	2
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				
Catalog number : 9801-007			CASRN : 117332-91-9	
Name : Valeryl fentanyl hydrochloride				
Mol. formula :	C ₂₄ H ₃₃ ClN ₂ O	FW : 400.99	DEA schedule :	2
References : Brine, GA; et al. <i>J Heterocyclic Chem</i> 1989 , 26, 677.				

Opioids: Hydrocodone Class

Catalog number : 9193-002

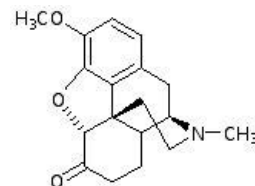
CASRN : 34195-34-1

Name : Dihydrocodeinone tartrate; hydrocodone bitartrate

Mol. formula : $C_{22}H_{27}NO_9$

FW : 449.46

DEA schedule : 2

Notes : *Narcotic analgesic; antitussive*References : *Merck Index*, 14th ed., Monograph 4785.**Opioids: Meperidine Class**

Catalog number : 9661-002

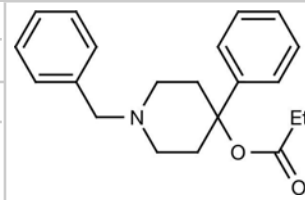
CASRN : 63916-24-5

Name : 1-Benzyl-4-phenyl-4-propionoxypiperidine hydrochloride

Mol. formula : $C_{21}H_{26}ClNO_2$

FW : 359.90

DEA schedule : 0



Catalog number : 9170-001

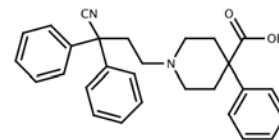
CASRN : 3810-80-8

Name : Diphenoxylate hydrochloride

Mol. formula : $C_{30}H_{33}ClN_2O_2$

FW : 489.04

DEA schedule : 2

Notes : *Antiperistaltic; antidiarrheal*References : *Merck Index*, 14th ed., Monograph 3313.

Catalog number : 9230-002

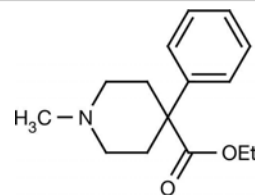
CASRN : 50-13-5

Name : Meperidine hydrochloride; Demerol hydrochloride

Mol. formula : $C_{15}H_{22}ClNO_2$

FW : 283.80

DEA schedule : 2

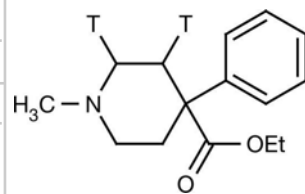
Notes : *Narcotic analgesic; sedative; anesthetic*References : *Merck Index*, 14th ed., Monograph 5849.

Catalog number : 9230-003

Name : [2,3- 3H_2]Meperidine hydrochlorideMol. formula : $C_{15}H_{22}ClNO_2$

FW : 287.81

DEA schedule : 2



Catalog number : 9661-001

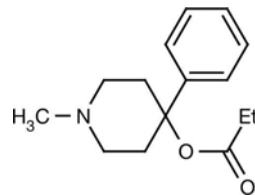
CASRN : 13147-09-6

Name : 1-Methyl-4-phenyl-4-propionoxypiperidine hydrochloride; Desmethyprodine; MPPP HCl

Mol. formula : $C_{15}H_{22}ClNO_2$

FW : 283.80

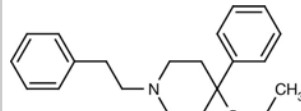
DEA schedule : 1

Notes : μ -Opioid agonist; narcotic analgesicReferences : Johannessen, JN; Markey SP *Drug Alcohol Depend* 1984, 13, 367-74.

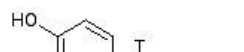
6 – Opioids and Opioid-related

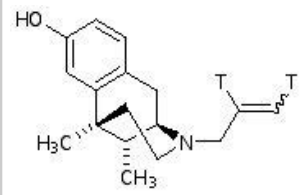
Catalog number : 9230-001			CASRN : 24465-45-0		
Name : Normeperidine hydrochloride					
Mol. formula : C ₁₄ H ₂₀ ClNO ₂		FW : 269.77		DEA schedule : 0	
					

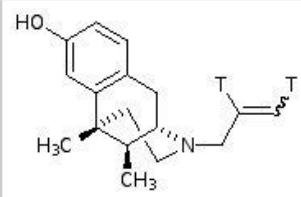
Catalog number : 9663-001			CASRN : 94-30-4	
Name : 1-(2-Phenylethyl)-4-phenyl-4-acetoxypiperidine hydrochloride; PEPAP HCl				
Mol. formula : C ₂₁ H ₂₆ ClNO ₂		FW : 359.90	DEA schedule :	1
References : Pritzker, D; <i>et al. J Clin Psychopharmacol</i> 2002, 22, 330-2.				

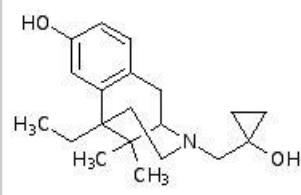


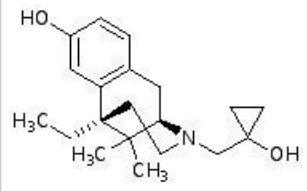
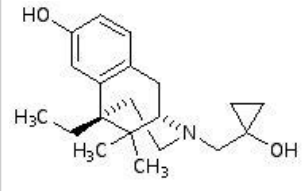
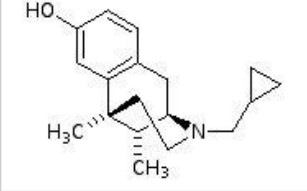
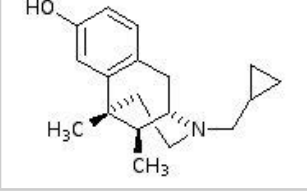
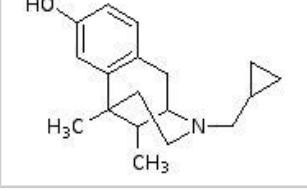
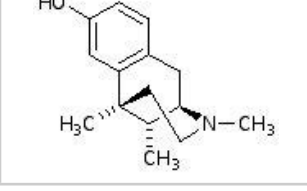
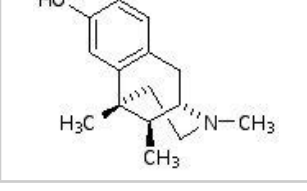
Opioids: Metazocine Class

Catalog number : 9240-003		
Name : [11,12- ³ H ₂]-(-)-Ethylketazocine		
Mol. formula : C ₁₉ H ₂₅ NO ₂	FW : 303.42	DEA schedule : 1
		

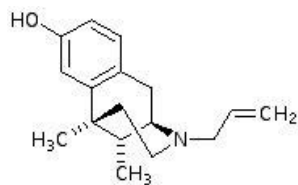
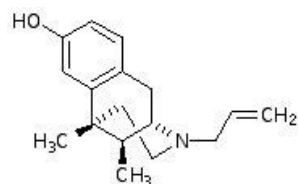
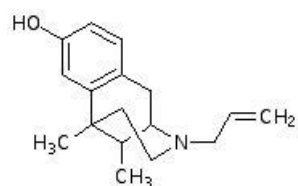
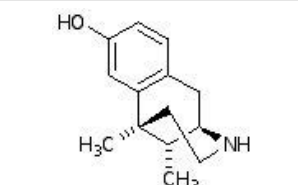
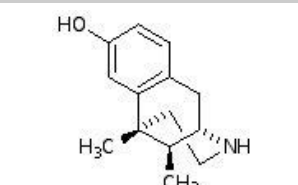
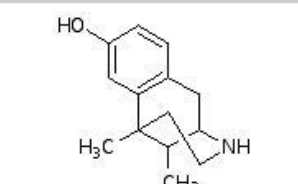
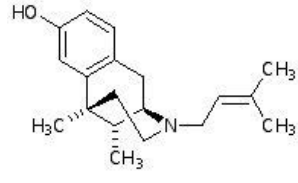
Catalog number : 9240-019			
Name : (-)-[17,18- ³ H]N-Allylnormetazocine			
Mol. formula : C ₁₇ H ₂₃ NO	FW : 261.39	DEA schedule : 0	

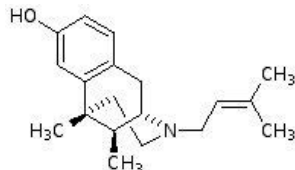
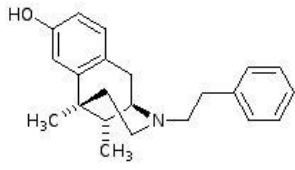
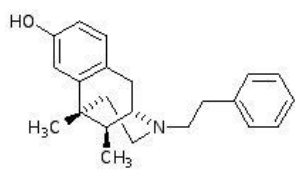
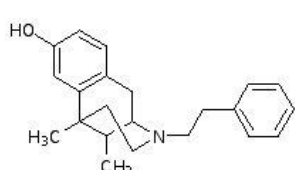
Catalog number : 9240-040			
Name : (+)-[17,18- ³ H ₂]N-Allylnormetazocine			
Mol. formula : C ₁₇ H ₂₃ NO	FW : 261.39	DEA schedule : 0	

Catalog number : 9240-029		CASRN : 71990-00-6		
Name : (±)-Bremazocine hydrochloride				
Mol. formula : C ₂₀ H ₃₀ ClNO ₂	FW : 351.92			DEA schedule : 0
Notes : <i>Kappa-opioid receptor standard ligand.</i>				
References : Dortch-Carnes, J; Potter, DE <i>CNS Drug Rev</i> 2005, 11, 195-212.				

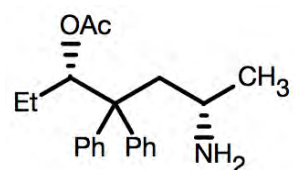
Catalog number : 9240-031			CASRN : 75684-07-0
Name : (-)-Bremazocine hydrochloride			
Mol. formula :	$C_{20}H_{30}ClNO_2$	FW : 351.92	DEA schedule : 0
Notes : <i>Kappa-opioid receptor standard ligand.</i>			
References : Dortch-Carnes, J; Potter, DE <i>CNS Drug Rev</i> 2005, 11, 195-212.			
Catalog number : 9240-030			
Name : (+)-Bremazocine hydrochloride			
Mol. formula :	$C_{20}H_{30}ClNO_2$	FW : 351.92	DEA schedule : 0
Notes : <i>Kappa-opioid receptor standard ligand.</i>			
References : Dortch-Carnes, J; Potter, DE <i>CNS Drug Rev</i> 2005, 11, 195-212.			
Catalog number : 9240-011			
Name : (-)-Cyclazocine			
Mol. formula :	$C_{18}H_{25}NO$	FW : 271.39	DEA schedule : 0
Notes : <i>Narcotic antagonist</i>			
Catalog number : 9240-012			
Name : (+)-Cyclazocine			
Mol. formula :	$C_{18}H_{25}NO$	FW : 271.39	DEA schedule : 0
Notes : <i>Narcotic antagonist</i>			
References : Carroll, FI; <i>et al. J Med Chem</i> 1992, 35, 2812-8.			
Catalog number : 9240-010			CASRN : 3572-80-3
Name : (±)-Cyclazocine			
Mol. formula :	$C_{18}H_{25}NO$	FW : 271.39	DEA schedule : 0
Notes : <i>Narcotic antagonist</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 2705. Carroll, FI; <i>et al. J Med Chem</i> 1992, 35, 2812-8.			
Catalog number : 9240-008			CASRN : 133005-39-7
Name : (-)-Metazocine fumarate			
Mol. formula :	$C_{34}H_{46}N_2O_6$	FW : 578.75	DEA schedule : 2
References : Carroll, FI; <i>et al. J Med Chem</i> 1992, 35, 2812-8.			
Catalog number : 9240-007			CASRN : 133005-40-0
Name : (+)-Metazocine fumarate			
Mol. formula :	$C_{34}H_{46}N_2O_6$	FW : 578.75	DEA schedule : 2
References : Carroll, FI; <i>et al. J Med Chem</i> 1992, 35, 2812-8.			

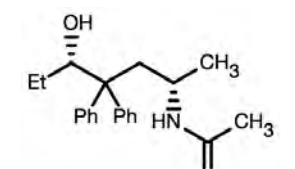
6 – Opioids and Opioid-related

Catalog number : 9240-018			CASRN : 14198-28-8		
Name : (-)-N-Allylnormetazocine hydrochloride, (-)-NANM; (-)-SKF-10,047					
Mol. formula : C ₁₇ H ₂₄ ClNO					
FW : 293.85					
DEA schedule : 0					
Notes : <i>Sigma receptor standard ligand.</i>					
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.					
Catalog number : 9240-017			CASRN : 133005-41-1		
Name : (+)-N-Allylnormetazocine hydrochloride, (+)-NANM; (+)-SKF-10,047					
Mol. formula : C ₁₇ H ₂₄ ClNO					
FW : 293.85					
DEA schedule : 0					
Notes : <i>Sigma receptor standard ligand.</i>					
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.					
Catalog number : 9240-016			CASRN : 7619-35-4		
Name : (±)-N-Allylnormetazocine hydrochloride; (±)-NANM; (±)-SKF-10,047; Alazocine					
Mol. formula : C ₁₇ H ₂₄ ClNO					
FW : 293.85					
DEA schedule : 0					
Notes : <i>Sigma receptor standard ligand.</i>					
Catalog number : 9240-004			CASRN : 16603-67-1		
Name : (-)- <i>cis</i> -Normetazocine					
Mol. formula : C ₁₄ H ₁₉ NO					
FW : 217.31					
DEA schedule : 0					
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.					
Catalog number : 9240-005			CASRN : 16670-83-0		
Name : (+)- <i>cis</i> -Normetazocine					
Mol. formula : C ₁₄ H ₁₉ NO					
FW : 217.31					
DEA schedule : 0					
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.					
Catalog number : 9240-002			CASRN : 16808-63-2		
Name : (±)-Normetazocine					
Mol. formula : C ₁₄ H ₁₉ NO					
FW : 217.31					
DEA schedule : 0					
Catalog number : 9709-003			CASRN : 124819-25-6		
Name : (-)-Pentazocine succinate					
Mol. formula : C ₂₃ H ₃₃ NO ₅					
FW : 403.52					
DEA schedule : 4					
Notes : <i>Sigma receptor standard ligand.</i>					
References : <i>Merck Index</i> , 14th ed., Monograph 7121. Brogden, RN; Speight, TM; Avery, GS <i>Drugs</i> 1973 , 5, 6-91. Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.					

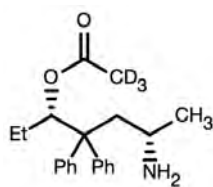
Catalog number : 9709-002			CASRN : 124819-26-7	
Name : (+)-Pentazocine succinate				
Mol. formula :	C ₂₃ H ₃₃ NO ₅	FW : 403.52		DEA schedule : 4
Notes : <i>Sigma receptor standard ligand.</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 7121. Brogden, RN; Speight, TM; Avery, GS <i>Drugs</i> 1973 , 5, 6-91. Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 2812-8.				
Catalog number : 9715-003				
Name : (-)-Phenazocine hydrobromide				
Mol. formula :	C ₂₂ H ₂₈ BrNO	FW : 402.39		DEA schedule : 2
Catalog number : 9715-002				
Name : (+)-Phenazocine hydrobromide				
Mol. formula :	C ₂₂ H ₂₈ BrNO	FW : 402.39		DEA schedule : 2
Catalog number : 9715-001			CASRN : 1239-04-9	
Name : (±)-Phenazocine hydrobromide				
Mol. formula :	C ₂₂ H ₂₈ BrNO	FW : 402.39		DEA schedule : 2
Notes : <i>Narcotic analgesic, σ receptor ligand</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 7218.				

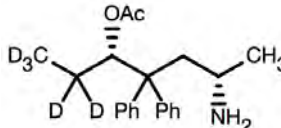
Opioids: Methadone Class

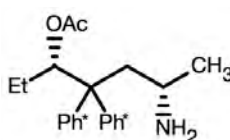
Catalog number : 9633-010			
Name : (-)-α-Acetyl-N,N-dinormethadol hydrochloride			
Mol. formula :	C ₂₁ H ₂₈ ClNO ₂	FW : 361.92	DEA schedule : 0
References : Carroll, FI; <i>et al. J Org Chem</i> 1976 , 41, 3521-4.			
			

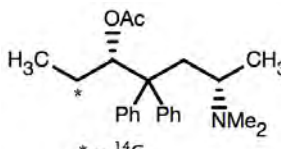
Catalog number : 9633-050			
Name : (-)-α-N-Acetyl-N,N-dinormethadol			
Mol. formula :	C ₂₁ H ₂₇ NO ₂	FW : 325.45	DEA schedule : 1
References : Carroll, FI; <i>et al. J Org Chem</i> 1976 , 41, 3521-4.			
			

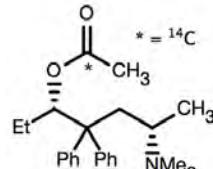
6 – Opioids and Opioid-related

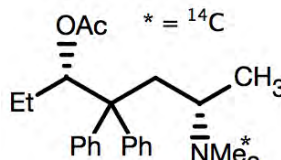
Catalog number : 9633-012		
Name : (-)-[Acetyl- ² H ₃]α-Acetyl-N,N-dinormethadol hydrochloride		
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.92	DEA schedule : 0
		

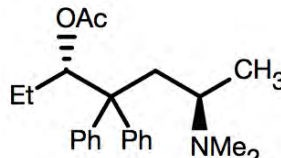
Catalog number : 9633-014		
Name : (-)-[1,1,1,2,2,3- ² H ₆]α-Acetyl-N,N-dinormethadol hydrochloride		
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.92	DEA schedule : 0
		

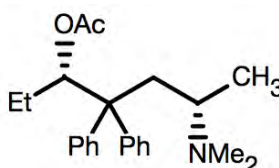
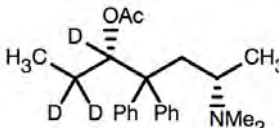
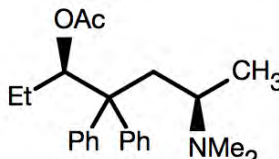
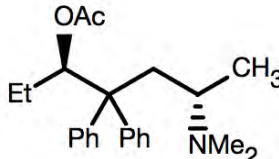
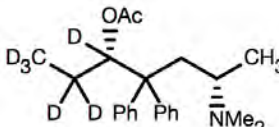
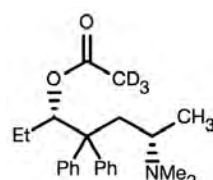
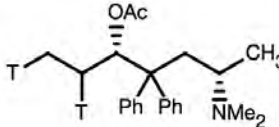
Catalog number : 9633-011		
Name : (-)-[o,o' - ³ H ₂ (n)]-α-Acetyl-N,N-dinormethadol hydrochloride		
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 389.97	DEA schedule : 0
 Ph* = o-T-phenyl		

Catalog number : 9648-013		
Name : (-)-[2- ¹⁴ C]-α-Acetylmethadol hydrochloride		
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 353.50	DEA schedule : 2
 * = ¹⁴C		

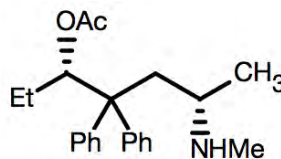
Catalog number : 9648-014		
Name : (-)-[Acetyl- ¹⁴ C]-α-Acetylmethadol		
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 353.50	DEA schedule : 2
 * = ¹⁴C		

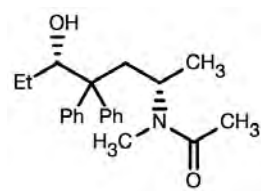
Catalog number : 9648-015		
Name : (-)-[N- ¹⁴ CH ₃]-α-Acetylmethadol hydrochloride		
Mol. formula : C ₂₃ H ₃₁ NO ₂	FW : 353.50	DEA schedule : 2
 * = ¹⁴C		

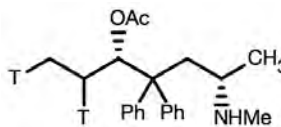
Catalog number : 9607-001		
Name : (-)-β-Acetylmethadol hydrochloride		
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 389.97	DEA schedule : 1
		

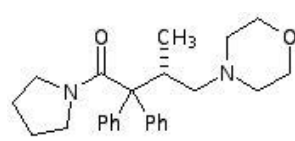
Catalog number : 9648-001			CASRN : 43033-72-3
Name : (-)- α -Acetylmethadol hydrochloride; LAAM hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 389.97	DEA schedule : 2	
Catalog number : 9648-016			
Name : (-)-[2,2,3- ² H ₃] α -Acetylmethadol hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 353.50	DEA schedule : 2	
Catalog number : 9603-003			
Name : (+)- α -Acetylmethadol hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 389.97	DEA schedule : 1	
Catalog number : 9607-002			
Name : (+)- β -Acetylmethadol hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 389.97	DEA schedule : 1	
Catalog number : 9648-010			
Name : (-)-[1,1,1,2,2,3- ² H ₆] α -Acetylmethadol hydrochloride			
Mol. formula : C ₂₄ H ₃₄ ClNO	FW : 389.97	DEA schedule : 2	
Catalog number : 9648-011			
Name : (-)-[Acetyl- ² H ₃] α -acetylmethadol hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 389.97	DEA schedule : 2	
Catalog number : 9648-012			
Name : (-)-[1,2- ³ H ₂] α -Acetylmethadol			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 353.50	DEA schedule : 2	

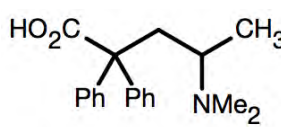
6 – Opioids and Opioid-related

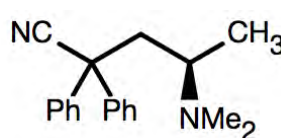
Catalog number : 9633-001			
Name : (-)-α-Acetylnormethadol hydrochloride			
Mol. formula : C ₂₂ H ₃₀ ClNO ₂	FW : 375.94	DEA schedule : 1	
References : Carroll, FI; <i>et al. J Org Chem</i> 1976 , <i>41</i> , 3521-4.			

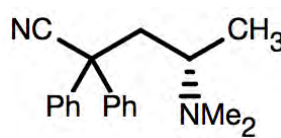
Catalog number : 9633-040			
Name : (-)-α-N-Acetylnormethadol			
Mol. formula : C ₂₂ H ₂₉ NO ₂	FW : 339.48	DEA schedule : 1	

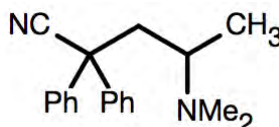
Catalog number : 9633-006			
Name : (-)-[1,2- ³ H]α-Acetylnormethadol hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 375.94	DEA schedule : 1	

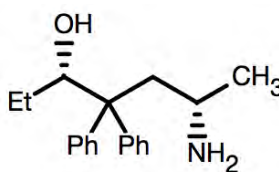
Catalog number : 9613-001			
Name : Dextromoramide tartrate			
Mol. formula : C ₂₅ H ₃₂ N ₂ O ₂	FW : 542.60	DEA schedule : 1	

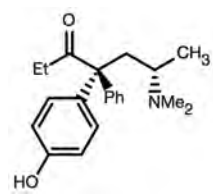
Catalog number : 9254-004			
Name : (±)-4-Dimethylamino-2,2-diphenylvaleric acid			
Mol. formula : C ₁₉ H ₂₃ NO ₂	FW : 297.40	DEA schedule : 0	

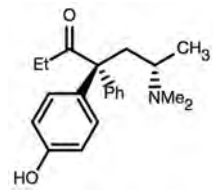
Catalog number : 9254-002			
Name : (-)-(R)-4-Dimethylamino-2,2-diphenylvaleronitrile			
Mol. formula : C ₁₉ H ₂₂ N ₂	FW : 278.40	DEA schedule : 2	

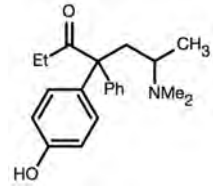
Catalog number : 9254-001			
Name : (+)-(S)-4-Dimethylamino-2,2-diphenylvaleronitrile			
Mol. formula : C ₁₉ H ₂₂ N ₂	FW : 278.40	DEA schedule : 2	

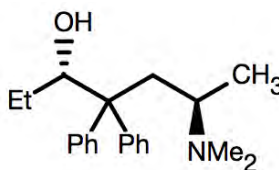
Catalog number : 9254-003			
Name : (±)-4-Dimethylamino-2,2-diphenylvaleronitrile			
Mol. formula : C ₁₉ H ₂₂ N ₂	FW : 278.40	DEA schedule :	2
			

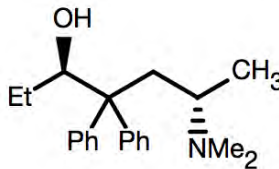
Catalog number : 9605-030			
Name : (-)-α-N,N-Dinormethadol maleate			
Mol. formula : C ₂₃ H ₂₉ NO ₅	FW : 399.49	DEA schedule :	1
References : Carroll, FI; <i>et al. J Org Chem</i> 1976 , <i>41</i> , 3521-4.			
			

Catalog number : 9250-061			
Name : (4 <i>R</i> ,6 <i>S</i>)- <i>p</i> -Hydroxymethadone hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.91	DEA schedule :	2
			

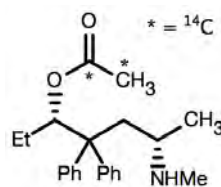
Catalog number : 9250-062			
Name : (4 <i>S</i> ,6 <i>S</i>)- <i>p</i> -Hydroxymethadone hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.91	DEA schedule :	2
			

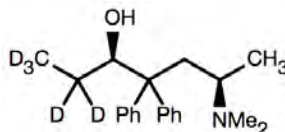
Catalog number : 9250-060			
Name : (4 <i>RS</i> ,6 <i>RS</i>)- <i>p</i> -Hydroxymethadone hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.91	DEA schedule :	2
			

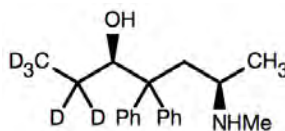
Catalog number : 9609-001		CASRN : 17199-55-2	
Name : (-)-β-Methadol			
Mol. formula : C ₂₁ H ₂₉ NO	FW : 311.47	DEA schedule :	1
References : Portoghesi, PS; Williams DA <i>J Med Chem</i> 1969 , <i>12</i> , 839-44.			
			

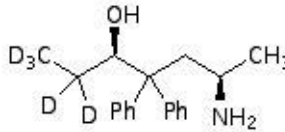
Catalog number : 9609-002			
Name : (+)-β-Methadol			
Mol. formula : C ₂₁ H ₂₉ NO	FW : 311.47	DEA schedule :	1
References : Portoghesi, PS; Williams DA <i>J Med Chem</i> 1969 , <i>12</i> , 839-44.			
			

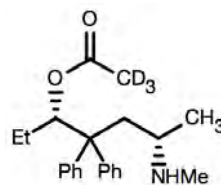
6 – Opioids and Opioid-related

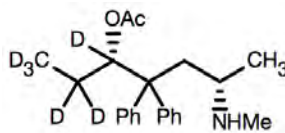
Catalog number : 9633-005		
Name : (-)-[Acetyl- ¹⁴ C ₂]-α-Acetylnormethadol hydrochloride		
Mol. formula : C ₂₂ H ₃₀ ClNO ₂	FW : 375.94	DEA schedule : 1
		

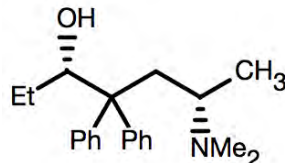
Catalog number : 9605-010		
Name : [1,1,1,2,2- ² H ₅]α-Methadol hydrochloride		
Mol. formula : C ₂₁ H ₃₀ ClNO	FW : 347.93	DEA schedule : 1
References : Portoghese, PS; Williams DA <i>J Med Chem</i> 1969 , <i>12</i> , 839-44.		
		

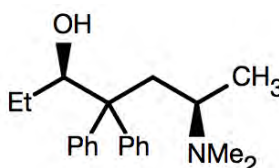
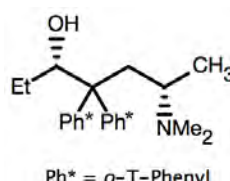
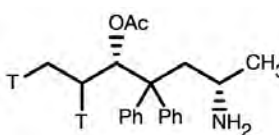
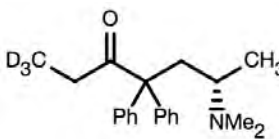
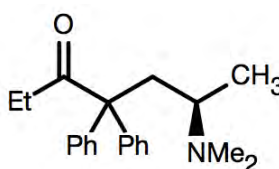
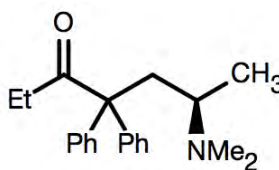
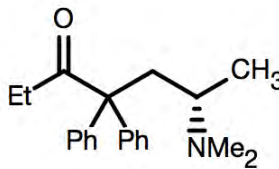
Catalog number : 9605-021		
Name : [1,1,1,2,2- ² H ₅]α-Normethadol perchlorate		
Mol. formula : C ₂₀ H ₂₈ ClNO ₅	FW : 397.90	DEA schedule : 1
		

Catalog number : 9605-031		
Name : [1,1,1,2,2- ² H ₅]α-N,N-Dinormethadol maleate		
Mol. formula : C ₁₉ H ₂₅ NO	FW : 399.49	DEA schedule : 1
		

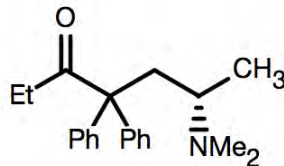
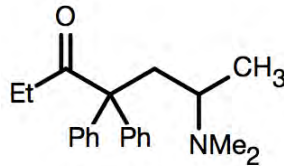
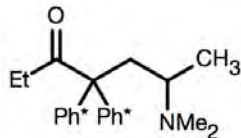
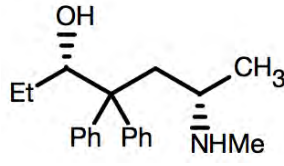
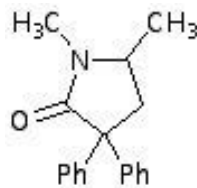
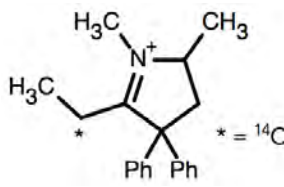
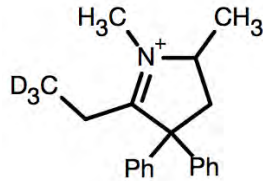
Catalog number : 9633-003		
Name : (-)-[Acetyl- ² H ₃]-α-Acetylnormethadol hydrochloride		
Mol. formula : C ₂₂ H ₃₀ ClNO ₂	FW : 375.94	DEA schedule : 1
		

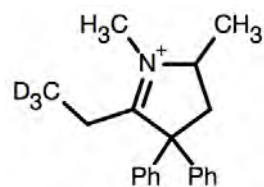
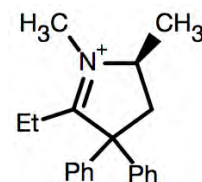
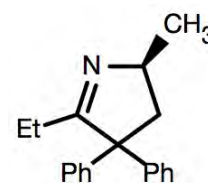
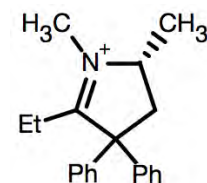
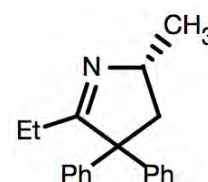
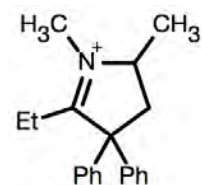
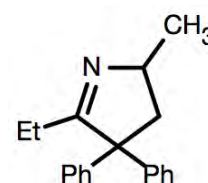
Catalog number : 9633-004		
Name : (-)-[1,1,1,2,2,3- ² H ₆]-α-Acetylnormethadol hydrochloride		
Mol. formula : C ₂₃ H ₂₂ ClNO ₂	FW : 375.94	DEA schedule : 1
		

Catalog number : 9605-001		
Name : (-)-α-Methadol hydrochloride		
Mol. formula : C ₂₁ H ₃₀ ClNO	FW : 347.93	DEA schedule : 1
References : Portoghese, PS; Williams DA <i>J Med Chem</i> 1969 , <i>12</i> , 839-44.		
		

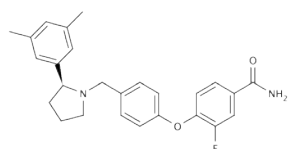
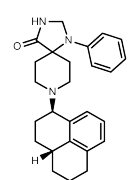
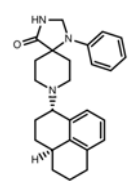
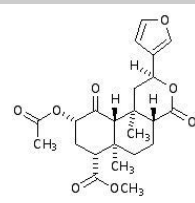
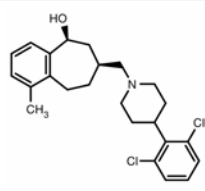
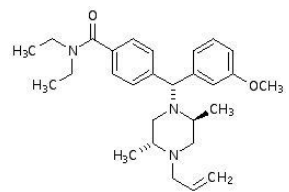
Catalog number : 9605-002			CASRN : 17199-54-1
Name : (+)- α -Methadol hydrochloride			
Mol. formula : C ₂₁ H ₃₀ ClNO		FW : 347.93 DEA schedule : 1	
References : Portoghese, PS; Williams DA <i>J Med Chem</i> 1969, 12, 839-44.			
Catalog number : 9605-003			
Name : (-)-[<i>o,o'</i> - ³ H ₂ (<i>n</i>)] α -Methadol hydrochloride			 Ph* = <i>o</i>-T-Phenyl
Mol. formula : C ₂₁ H ₂₉ NO		FW : 347.93 DEA schedule : 1	
References : Portoghese, PS; Williams DA <i>J Med Chem</i> 1969, 12, 839-44.			
Catalog number : 9633-015			
Name : (-)-[1,2- ³ H ₂] α -Acetyl-N,N-dinormethadol hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂		FW : 361.9-2 DEA schedule : 0	
Catalog number : 9250-011			
Name : (+)-[1,1,1- ² H ₃]Methadone hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO		FW : 348.92 DEA schedule : 2	
Catalog number : 9250-002			CASRN : 125-58-6
Name : (-)-(<i>R</i>)-Methadone			
Mol. formula : C ₂₁ H ₂₇ NO		FW : 309.46 DEA schedule : 2	
References : <i>Merck Index</i> , 14th ed., Monograph 5944.			
Catalog number : 9250-005			CASRN : 125-58-6
Name : (-)-(<i>R</i>)-Methadone hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO		FW : 345.92 DEA schedule : 2	
Catalog number : 9250-001			CASRN : 5653-80-5
Name : (+)-(<i>S</i>)-Methadone			
Mol. formula : C ₂₁ H ₂₇ NO		FW : 309.46 DEA schedule : 2	

6 – Opioids and Opioid-related

Catalog number : 9250-004				CASRN : 5653-80-5	
Name : (+)-(<i>S</i>)-Methadone hydrochloride					
Mol. formula : C ₂₁ H ₂₈ ClNO		FW : 345.92	DEA schedule : 2		
Catalog number : 9250-003				CASRN : 1095-90-5	
Name : (±)-Methadone hydrochloride					
Mol. formula : C ₂₁ H ₂₈ ClNO		FW : 345.92	DEA schedule : 2		
References : <i>Merck Index</i> , 14th ed., Monograph 5944.					
Catalog number : 9250-006					
Name : (±)-[<i>o,o'</i> - ³ H ₂ (<i>n</i>)]Methadone				 Ph* = <i>o</i> -T-phenyl	
Mol. formula : C ₂₁ H ₂₇ NO		FW : 313.46	DEA schedule : 2		
Catalog number : 9605-020					
Name : (-)-α-Normethadol perchlorate					
Mol. formula : C ₂₀ H ₂₈ ClNO ₅		FW : 397.90	DEA schedule : 1		
References : Carroll, FI; <i>et al. J Org Chem</i> 1976, 41, 3521-4.					
Catalog number : 9254-005					
Name : (±)-1,5-Dimethyl-3,3-diphenyl-2-pyrrolidone					
Mol. formula : C ₁₈ H ₁₉ NO		FW : 265.36	DEA schedule : 0		
Catalog number : 9250-026					
Name : [1'- ¹⁴ C]-2-Ethyl-1,5-dimethyl-3,3-diphenylpyrrolinium perchlorate				 * = ¹⁴ C	
Mol. formula : C ₂₀ H ₂₅ ClNO ₄		FW : 536.01	DEA schedule : 0		
Catalog number : 9250-027					
Name : [Ethyl-2',2',2'- ² H ₃]-1,5-Dimethyl-3,3-diphenyl-2-ethylpyrrolinium perchlorate					
Mol. formula : C ₂₀ H ₂₅ ClNO ₄		FW : 384.91	DEA schedule : 0		

Catalog number : 9250-032**Name :** [Ethyl-2',2',2'-²H₃]-3,3-Diphenyl-2-ethyl-5-methyl-1-pyrroline hydrochloride**Mol. formula :** C₂₀H₂₅CIN**FW :** 302.86**DEA schedule :** 0**Catalog number : 9250-024****Name :** (-)-(S)-2-Ethyl-1,5-dimethyl-3,3-diphenylpyrrolinium perchlorate**Mol. formula :** C₂₀H₂₄ClNO₄**FW :** 377.88**DEA schedule :** 0**Catalog number : 9250-033****Name :** (-)-(S)-2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline hydrochloride**Mol. formula :** C₁₉H₂₂CIN**FW :** 299.85**DEA schedule :** 0**Catalog number : 9250-025****Name :** (+)-(R)-2-Ethyl-1,5-dimethyl-3,3-diphenylpyrrolinium perchlorate**Mol. formula :** C₂₀H₂₄ClNO₄**FW :** 377.88**DEA schedule :** 0**Catalog number : 9250-034****Name :** (+)-(R)-2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline hydrochloride**Mol. formula :** C₁₉H₂₂CIN**FW :** 299.85**DEA schedule :** 0**Catalog number : 9250-021****Name :** (±)-2-Ethyl-1,5-dimethyl-3,3-diphenylpyrrolinium perchlorate**Mol. formula :** C₂₀H₂₄ClNO₄**FW :** 377.86**DEA schedule :** 0**Catalog number : 9250-031****Name :** (±)-2-Ethyl-5-methyl-3,3-diphenyl-1-pyrroline hydrochloride**Mol. formula :** C₁₉H₂₂CIN**FW :** 299.85**DEA schedule :** 0

Opioids: Miscellaneous

Catalog number : NOCD-107			CASRN : 1174130-61-0
Name : LY-2456302			
Mol. formula : C ₂₆ H ₂₈ ClFN ₂ O ₂ FW : 454.97DEA schedule : 0			
Notes : <i>κ</i> -Opioid antagonist.			
References : Peters, MF; et al., <i>Eur J Pharmacol</i> 2011 , 661, 27-34.			
Catalog number : NOCD-138			CASRN : 309254-79-3
Name : Ro 64-6198 hydrochloride			
Mol. formula : C ₂₆ H ₃₁ N ₃ O • HClFW : 438.02DEA schedule : 0			
Notes : <i>Potent nociceptin opioid receptor agonist.</i>			
References : Wichmann, J; et al., <i>Eur. J. Med. Chem.</i> 2000 , 35, 839-851.			
Catalog number : NOCD-139			
Name : Ro 64-6198 analog [(+)-isomer of Ro 64-6198]			
Mol. formula : C ₂₆ H ₃₁ N ₃ O • HClFW : 438.02DEA schedule : 0			
Notes : <i>Nociceptin opioid receptor agonist. 32-fold less potent (+)-enantiomer of Ro 64-6198.</i>			
References : Jenck, F; et al., <i>Proc Nat Acad Sci USA</i> 2000 , 97, 4938-4943.			
Catalog number : NOCD-099			CASRN : 83729-01-5
Name : Salvinorin A			
Mol. formula : C ₂₃ H ₂₈ O ₈ FW : 432.47DEA schedule : 0			
Notes : <i>Hallucinogen; κ-opioid agonist.</i>			
References : Roth, BL; et al. <i>Proc Natl Acad Sci USA</i> 2002 , 99, 11934-9.			
Catalog number : NOCD-134			CASRN : 371980-98-2
Name : SB-612111 hydrochloride			
Mol. formula : C ₂₄ H ₂₉ Cl ₂ NO • HClFW : 454.87DEA schedule : 0			
Notes : <i>Nociceptin/orphanin FQ (NOP) receptor antagonist.</i>			
References : Zaratin, PF; et al., <i>J Pharmacol Exp Ther</i> 2004 , 308, 454-61.			
Catalog number : NOCD-055			CASRN : 156727-74-1
Name : SNC 80			
Mol. formula : C ₂₈ H ₃₉ N ₃ O ₂ FW : 449.64DEA schedule : 0			
Notes : <i>Highly-selective δ-opioid receptor agonist.</i>			
References : Do Carmo, GP; et al. <i>Eur J Pharmacol</i> 2006 , 547, 92-100.			

Opioids: Morphinan Class

Catalog number : 9732-001

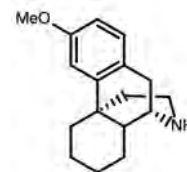
CASRN : 1087-69-0

Name : (+)-3-Methoxymorphinan hydrochloride

Mol. formula : $C_{17}H_{23}ClNO$

FW : 293.84

DEA schedule : 0

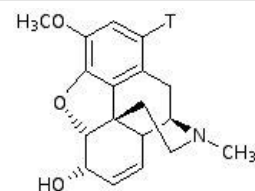
**Opioids: Morphine Class**

Catalog number : 9050-011

Name : $[1-^3H]$ CodeineMol. formula : $C_{18}H_{21}NO_3$

FW : 301.37

DEA schedule : 2

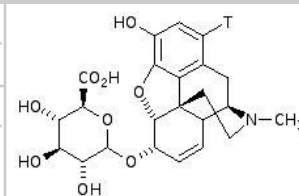


Catalog number : 9300-014

Name : $[1-^3H]$ Morphine-6-glucuronideMol. formula : $C_{23}H_{27}NO_9$

FW : 463.47

DEA schedule : 2



Catalog number : 9050-004

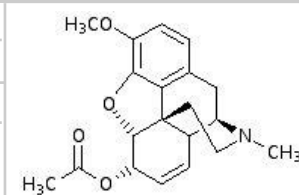
CASRN : 6703-27-1

Name : 6-Acetylcodeine

Mol. formula : $C_{20}H_{23}NO$

FW : 341.41

DEA schedule : 2



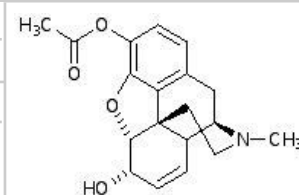
Catalog number : 9300-010

Name : 3-Acetylmorphine sulfamate

Mol. formula : $C_{19}H_{24}N_2O_7S$

FW : 424.47

DEA schedule : 2



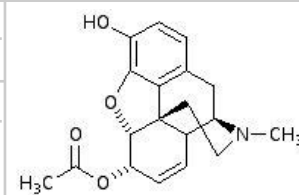
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Name : 6-Acetylmorphine

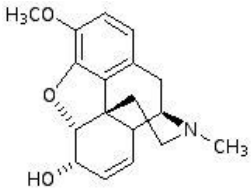
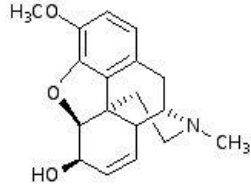
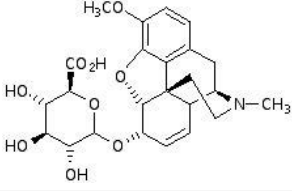
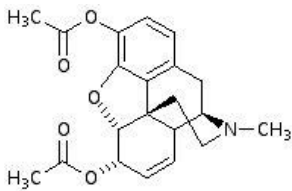
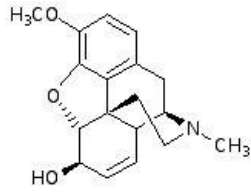
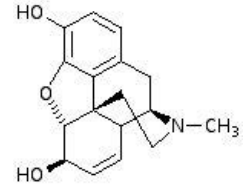
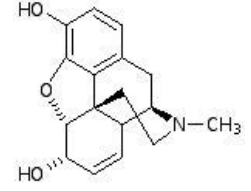
Mol. formula : $C_{19}H_{21}NO_4$

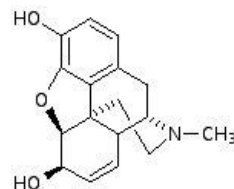
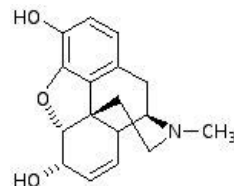
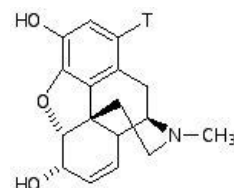
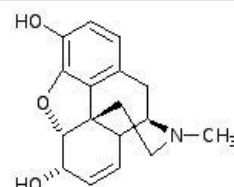
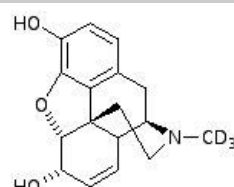
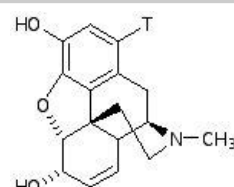
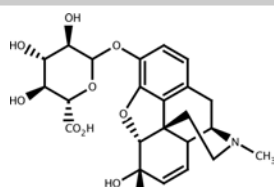
FW : 327.38

DEA schedule : 2

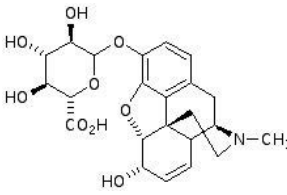
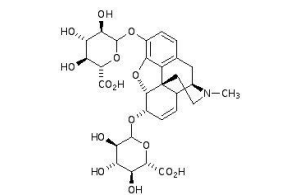
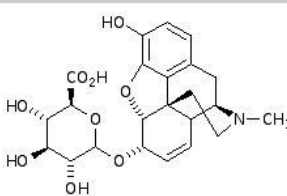
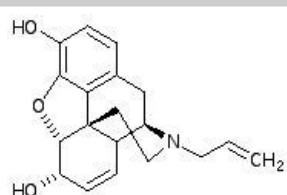


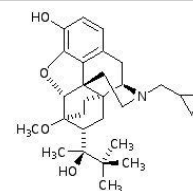
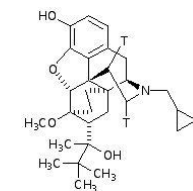
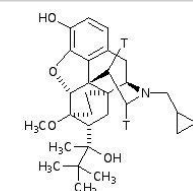
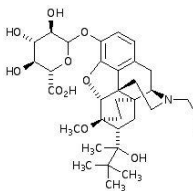
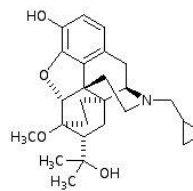
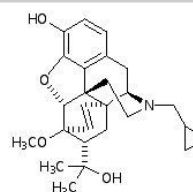
6 – Opioids and Opioid-related

Catalog number : 9050-001			CASRN : 1422-07-7
Name : Codeine hydrochloride			
Mol. formula :	$C_{18}H_{22}ClNO_3$	FW : 335.84	DEA schedule : 2
Notes : <i>Narcotic analgesic; antitussive</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 2455.			
Catalog number : 9050-010			CASRN : 76-57-3
Name : (+)-Codeine base			
Mol. formula :	$C_{18}H_{21}NO_3$	FW : 299.36	DEA schedule : 2
Catalog number : 9050-009			
Name : Codeine-6-β-D-glucuronide			
Mol. formula :	$C_{24}H_{29}NO_9$	FW : 475.50	DEA schedule : 2
Catalog number : 9200-001			CASRN : 1502-95-0
Name : 3,6-Diacetylmorphine hydrochloride; Diamorphine HCl			
Mol. formula :	$C_{21}H_{24}ClNO_5$	FW : 405.88	DEA schedule : 1
Notes : <i>Narcotic analgesic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 2968.			
Catalog number : 9050-006			CASRN : 509-64-8
Name : Isocodeine			
Mol. formula :	$C_{18}H_{21}NO_3$	FW : 299.35	DEA schedule : 2
Catalog number : 9300-020			CASRN : 143-70-4
Name : α-Isomorphine			
Mol. formula :	$C_{17}H_{19}NO_3$	FW : 285.35	DEA schedule : 2
Catalog number : 9300-007			CASRN : 57-27-2
Name : Morphine base			
Mol. formula :	$C_{17}H_{19}NO_3$	FW : 285.33	DEA schedule : 2
Notes : <i>Narcotic analgesic; antitussive; antiperistaltic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 6276.			

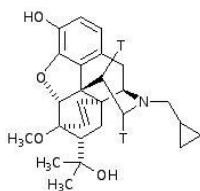
Catalog number : 9300-012			CASRN : 65165-99-3	
Name : (+)-Morphine base				
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 285.35	DEA schedule : 2		
Catalog number : 9300-016			CASRN : 52-26-6	
Name : Morphine hydrochloride monohydrate				
Mol. formula : C ₁₇ H ₂₀ ClNO ₃	FW : 321.81	DEA schedule : 2		
References : <i>Merck Index</i> , 14th ed., Monograph 6276.				
Catalog number : 9300-002				
Name : Tritium-labeled Morphine sulfate				
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 475.50	DEA schedule : 2		
Catalog number : 9300-001			CASRN : 6211-15-0	
Name : Morphine sulfate pentahydrate				
Mol. formula : C ₃₄ H ₄₀ N ₂ O ₁₀ S	FW : 758.83	DEA schedule : 2		
Notes : <i>Narcotic analgesic; prototypic μ opioid receptor agonist; sedative</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 6276.				
Catalog number : 9300-005			CASRN : 67293-88-3	
Name : [N-C ² H ₃]Morphine				
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 288.36	DEA schedule : 2		
Catalog number : 9300-006			CASRN : 80573-75-7	
Name : [1- ³ H(n)]Morphine				
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 287.35	DEA schedule : 2		
Catalog number : 9300-011				
Name : Morphine-(6- ³ H)-3-glucuronide				
Mol. formula : C ₂₃ H ₂₇ NO ₉	FW : 463.47	DEA schedule : 2		

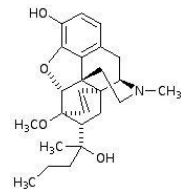
6 – Opioids and Opioid-related

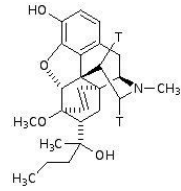
Catalog number : 9300-003			
Name : Morphine-3-beta-D-glucuronide			
Mol. formula : C ₂₃ H ₂₇ NO ₉	FW : 461.44	DEA schedule : 2	
References : Berrang, B; <i>et al. Synthetic Communications</i> 1975, 5, 231-236.			
Catalog number : 9300-015			
Name : Morphine-3,6-di-beta-D-glucuronide, monolithium salt			
Mol. formula : C ₂₉ H ₃₄ LiNO ₁₅	FW : 643.52	DEA schedule : 2	
Catalog number : 9300-013		CASRN : 20290-10-2	
Name : Morphine-6-beta-D-glucuronide			
Mol. formula : C ₂₃ H ₂₇ NO ₉	FW : 461.47		DEA schedule : 2
Catalog number : 9400-001		CASRN : 62-67-9	
Name : Nalorphine hydrochloride			
Mol. formula : C ₁₉ H ₂₂ ClNO ₃	FW : 347.84		DEA schedule : 3
Notes : <i>Narcotic antagonist</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 6361.			
Catalog number : 9050-002			
Name : Norcodeine hydrochloride			
Mol. formula : C ₁₇ H ₂₀ ClNO ₃	FW : 321.81		DEA schedule : 2
Catalog number : 9313-001		CASRN : 3372-02-9	
Name : Normorphine hydrochloride			
Mol. formula : C ₁₆ H ₁₈ ClNO ₃	FW : 307.78		DEA schedule : 1
References : <i>Merck Index</i> , 14th ed., Monograph 6711.			

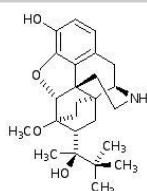
Opioids: Orvinol Class**Catalog number :** 9064-001**CASRN :** 53152-21-9**Name :** Buprenorphine hydrochloride**Mol. formula :** C₂₉H₄₂ClNO₄**FW :** 504.11**DEA schedule :** 3**Notes :** *Narcotic Analgesic***References :** Robinson, SE *CNS Drug Rev* 2002, 8, 377-90.**Catalog number :** 9064-002**CASRN :** 161772-95-8**Name :** [15,16-³H₂]Buprenorphine hydrochloride**Mol. formula :** C₂₆H₃₈ClNO₄**FW :** 508.11**DEA schedule :** 5**Notes :** *Narcotic analgesic (tritium-labeled).***References :** Robinson, SE *CNS Drug Rev* 2002, 8, 377-90.**Catalog number :** 9064-003**CASRN :** 161772-95-8**Name :** [15,16-³H₂]Buprenorphine**Mol. formula :** C₂₉H₄₁NO₄**FW :** 508.11**DEA schedule :** 3**Notes :** *Narcotic analgesic (tritium-labeled).***References :** Robinson, SE *CNS Drug Rev* 2002, 8, 377-90.**Catalog number :** 9064-005**CASRN :** 101224-22-0**Name :** Buprenorphine-3-β-D-glucuronide**Mol. formula :** C₃₅H₄₉NO₁₀**FW :** 654.59**DEA schedule :** 5**Catalog number :** 9058-003**CASRN :** 14357-78-9**Name :** Diprenorphine**Mol. formula :** C₂₆H₃₅NO₄**FW :** 425.54**DEA schedule :** 2**Notes :** *(see footnotes 1 & 2 in Section C)***References :** *Merck Index*, 14th ed., Monograph 3340.**Catalog number :** 9058-001**CASRN :** 14357-78-9**Name :** Diprenorphine hydrochloride**Mol. formula :** C₂₆H₃₆ClNO₄**FW :** 462.04**DEA schedule :** 2**Notes :** *(see footnotes 1 & 2 in Section C)***References :** *Merck Index*, 14th ed., Monograph 3340.

6 – Opioids and Opioid-related

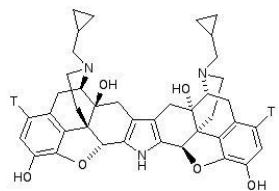
Catalog number : 9058-002	
Name : [15,16- ³ H ₂]Diprenorphine	
Mol. formula : C ₂₆ H ₃₆ ClNO ₄	FW : 429.58 DEA schedule : 2
Notes : (see footnotes 1 & 2 in Section C)	
	

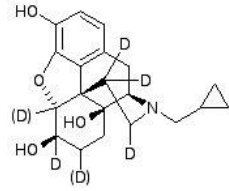
Catalog number : 9059-001	CASRN : 14521-96-1
Name : Etorphine hydrochloride	
Mol. formula : C ₂₅ H ₃₄ ClNO ₄	FW : 448.01 DEA schedule : 2
Notes : (see footnotes 1 & 2 in Section C)	
References : <i>Merck Index</i> , 14th ed., Monograph 3888.	
	

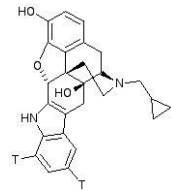
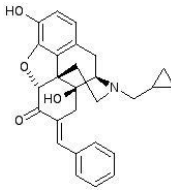
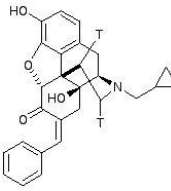
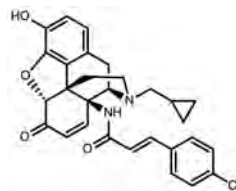
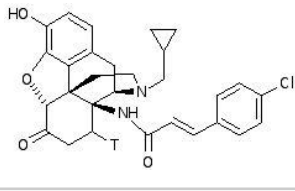
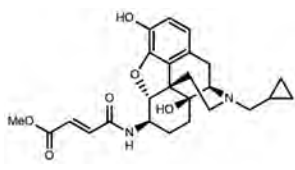
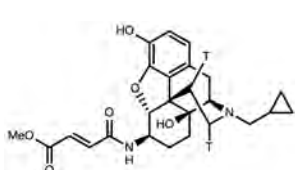
Catalog number : 9056-001	
Name : [15,16- ³ H ₂]Etorphine	
Mol. formula : C ₂₅ H ₃₃ NO ₄	FW : 429.58 DEA schedule : 1
Notes : (see footnotes 1 & 2 in Section C)	
	

Catalog number : 9333-013	CASRN : 78715-23-8
Name : Norbuprenorphine base	
Mol. formula : C ₂₅ H ₃₅ NO ₄	FW : 413.55 DEA schedule : 2
Notes : <i>Buprenorphine metabolite.</i>	
References : Robinson, SE <i>CNS Drug Rev</i> 2002, 8, 377-90.	
	

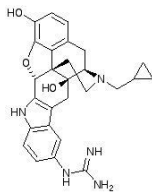
Opioids: Oxymorphone Class

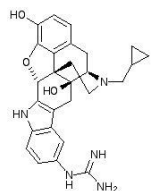
Catalog number : NOCD-084	
Name : [1,1'- ³ H(n)]Norbinaltorphimine; [³ H]norBNI	
Mol. formula : C ₄₀ H ₄₃ N ₃ O ₆	FW : 665.80 DEA schedule : 0
References : Birch, PJ; <i>et al. Eur J Pharmacol</i> 1987, 144, 405-8. Portoghese, PS; Lipkowski, AW; Takemori, AE <i>Life Sci</i> 1987, 40, 1287-92.	
	

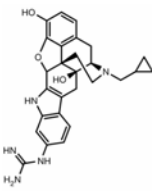
Catalog number : 9652-057	
Name : [5,6,7,15,15,16- ² H ₆]-6α-Naltrexol	
Mol. formula : C ₂₀ H ₂₅ NO ₄	FW : 349.45 DEA schedule : 0
	

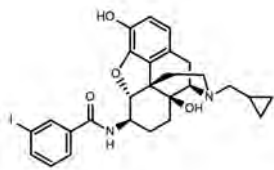
Catalog number : 9652-061			
Name : [5',7'- ³ H ₂]Naltrindole			
Mol. formula : C ₂₆ H ₂₆ N ₂ O ₃	FW : 418.51	DEA schedule : 0	
Catalog number : 9652-067			CASRN : 173556-52-0
Name : 7-Benzylidene-7-dehydronaltrexone (BNTX) hydrochloride			
Mol. formula : C ₂₇ H ₂₈ ClNO ₄	FW : 465.97	DEA schedule : 0	
Catalog number : 9652-068			
Name : [15,16- ³ H]-7-Benzylidene-7-dehydronaltrexone; [³ H]BNTX			
Mol. formula : C ₂₇ H ₂₈ ClNO ₄	FW : 433.52	DEA schedule : 0	
Catalog number : NOCD-100			CASRN : 117332-69-1
Name : Clocinnamox mesylate			
Mol. formula : C ₃₀ H ₃₁ ClN ₂ O ₇ S	FW : 599.09		
Notes : Irreversible μ -opioid receptor antagonist.			
References : Comer, SD; <i>et al. J Pharmacol Exp Ther</i> 1992, 262, 1051-6.			
Catalog number : NOCD-079			
Name : Tritium-labeled Clocinnamox			
Mol. formula : C ₂₉ H ₂₉ ClN ₂ O ₄	FW : 507.01	DEA schedule : 0	
References : Comer, SD; Burke, TF; Lewis, JW; Woods, JH <i>J Pharmacol Exp Ther</i> 1992, 262, 1051-6.			
Catalog number : NOCD-141			CASRN : 72786-10-8
Name : β -Funaltrexamine hydrochloride; β -FNA hydrochloride			
Mol. formula : C ₂₅ H ₃₁ ClN ₂ O ₆	FW : 490.99	DEA schedule : 2	
Notes : Irreversible binding antagonist for the μ -opioid receptor.			
References : Portoghese, PS; el Kouhen, R; Law, PY; Loh, HH; Le Bourdonnec, B <i>Farmaco</i> 2001, 56, 191-6.			
Catalog number : 9333-012			
Name : [15,16- ³ H ₂]-6 β -Funaltrexamine			
Mol. formula : C ₂₆ H ₃₃ ClN ₂ O ₆	FW : 458.53	DEA schedule : 2	
Notes : Irreversible μ -opioid receptor antagonist (tritium-labeled).			
References : Portoghese, PS; el Kouhen, R; Law, PY; Loh, HH; Le Bourdonnec, B <i>Farmaco</i> 2001, 56, 191-6.			

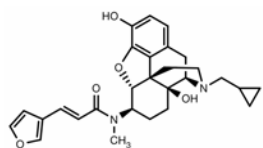
6 – Opioids and Opioid-related

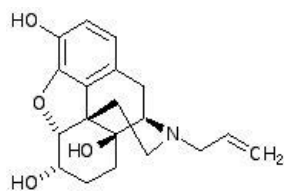
Catalog number : 9652-062		
Name : 5'-GNTI trihydrochloride		
Mol. formula : C ₂₇ H ₃₂ Cl ₃ N ₅ O ₃	FW : 580.94	DEA schedule : 0
Notes : <i>Selective κ-opioid receptor antagonist.</i>		
References : Jones, RM; Portoghesi, PS <i>Eur J Pharmacol</i> 2000 , 396, 49-52.		
		

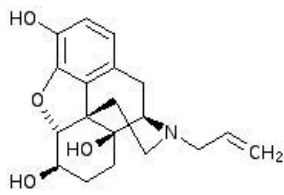
Catalog number : 9652-063		CASRN : 219655-56-8
Name : 5'-GNTI dihydrochloride		
Mol. formula : C ₂₇ H ₃₁ Cl ₂ N ₅ O ₃	FW : 544.48	DEA schedule : 0
Notes : <i>Selective κ-opioid receptor antagonist.</i>		
References : Jones, RM; Portoghesi, PS <i>Eur J Pharmacol</i> 2000 , 396, 49-52.		
		

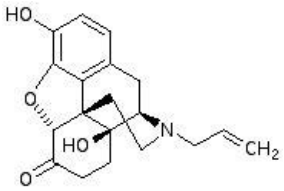
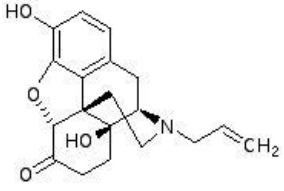
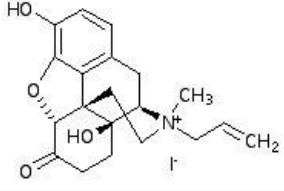
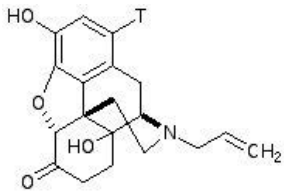
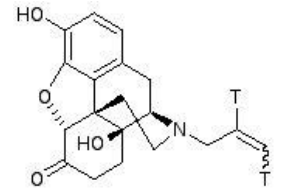
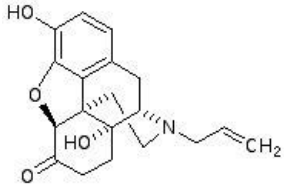
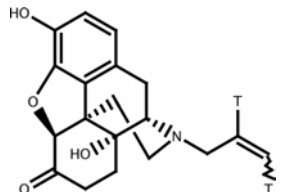
Catalog number : 9652-069		CASRN : 350693-06-0
Name : 6'-GNTI dihydrochloride		
Mol. formula : C ₂₇ H ₂₉ N ₅ O ₃ • 2HCl	FW : 544.48	DEA schedule : 0
Notes : <i>Kappa-opioid receptor agonist that inhibits arrestin recruitment.</i>		
References : Rives, ML; <i>et al.</i> , <i>J Biol Chem</i> 2012 , 287, 27050-4.		
		

Catalog number : 9652-070		CASRN : 1314879-44-1
Name : IBNtxA		
Mol. formula : C ₂₇ H ₂₉ IN ₂ O ₄ • HCl	FW : 608.90	DEA schedule : 0
Notes : <i>Kappa opioid receptor agonist.</i>		
References : Majumdar, S; <i>et al.</i> , <i>J Med Chem</i> 2012 , 55, 6352-62.		
		

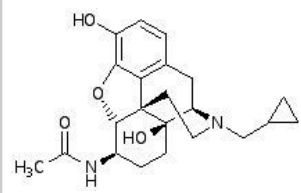
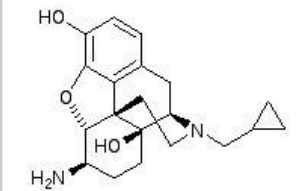
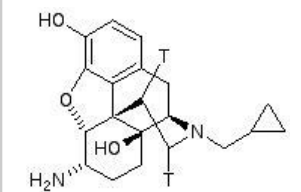
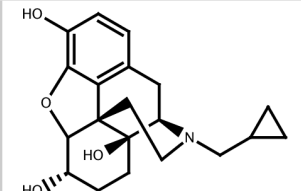
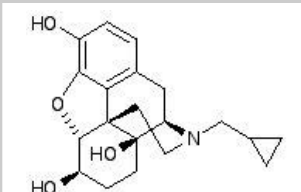
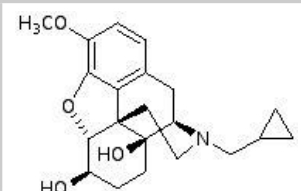
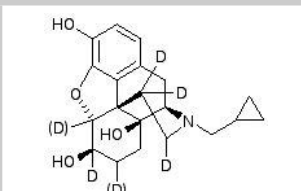
Catalog number : 9668-001		CASRN : 152658-17-8
Name : Nalfurafine		
Mol. formula : C ₂₈ H ₃₂ N ₂ O ₅ • HCl	FW : 513.03	DEA schedule : 2
Notes : <i>Kappa opioid receptor agonist.</i>		
References : Kawai, K., <i>et al.</i> , <i>Bioorg Med Chem</i> (2008) 16, 9188.		
		

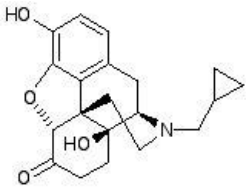
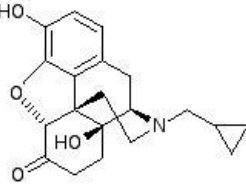
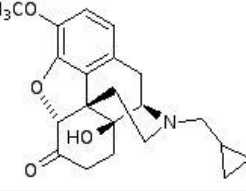
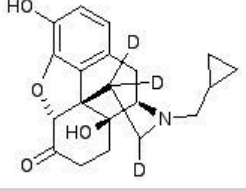
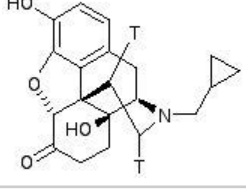
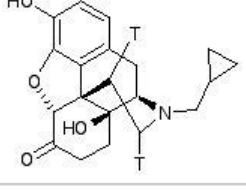
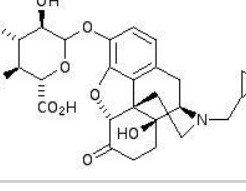
Catalog number : 9652-040		
Name : 6α-Naloxol hydrochloride		
Mol. formula : C ₁₉ H ₂₄ ClNO ₄	FW : 365.86	
DEA schedule : 0		

Catalog number : 9652-041		
Name : 6β-Naloxol hydrochloride		
Mol. formula : C ₁₉ H ₂₄ ClNO ₄	FW : 365.86	
DEA schedule : 0		

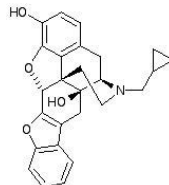
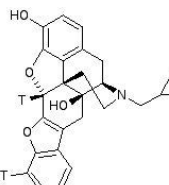
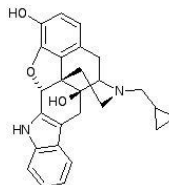
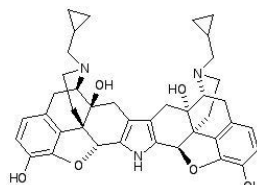
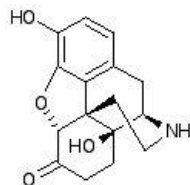
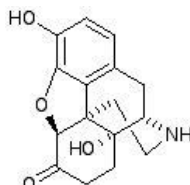
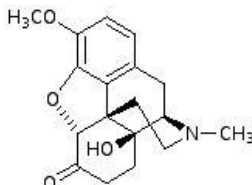
Catalog number : 9652-030			CASRN : 51481-60-8
Name : Naloxone hydrochloride			
Mol. formula :	$C_{19}H_{22}ClNO_4$	FW : 363.84	DEA schedule : 0
Notes : <i>Narcotic antagonist</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 6362.			
Catalog number : 9652-032			
Name : Naloxone pamoate			
Mol. formula :	$C_{61}H_{58}N_2O_{14}$	FW : 1043.14	DEA schedule : 0
Catalog number : 9652-037			
Name : Naloxone methiodide			
Mol. formula :	$C_{20}H_{24}INO_4$	FW : 469.32	DEA schedule : 0
Catalog number : 9652-031			
Name : (-)-[1- $^3H(n)$]Naloxone			
Mol. formula :	$C_{19}H_{21}NO_4$	FW : 329.38	DEA schedule : 0
Catalog number : 9652-035			
Name : (-)-[19,20- 3H_2]Naloxone			
Mol. formula :	$C_{19}H_{21}NO_4$	FW : 331.39	DEA schedule : 0
Catalog number : 9652-038			CASRN : 357-08-4
Name : (+)-Naloxone hydrochloride			
Mol. formula :	$C_{19}H_{22}ClNO_4$	FW : 363.85	DEA schedule : 0
Notes : <i>Unnatural isomer of naloxone. Selective Toll-like receptor 4 antagonist.</i>			
References : Hutchinson, MR; <i>et al.</i> , <i>Brain Behav Immun</i> 2010 , 24, 83-95.; Watkins, LR; <i>et al.</i> , <i>Trends Pharmacol Sci</i> 2009 , 30, 581-91.			
Catalog number : 9652-039			
Name : (+)-[19,20- 3H_2]Naloxone			
Mol. formula :	$C_{19}H_{21}NO_4$	FW : 331.39	DEA schedule : 0

6 – Opioids and Opioid-related

Catalog number : 9333-017			CASRN : 360770-17-8		
Name : 6β-Naltrexamide			FW : 388.975	DEA schedule : 2	
Mol. formula : C ₂₂ H ₂₈ N ₂ O ₄					
					
Catalog number : 9333-010					
Name : 6β-Naltrexamine dihydrochloride			FW : 415.36	DEA schedule : 2	
Mol. formula : C ₂₀ H ₂₈ Cl ₂ N ₂ O ₃					
					
Catalog number : 9333-009					
Name : [15,16- ³ H ₂]-6β-Naltrexamine			FW : 346.45	DEA schedule : 2	
Mol. formula : C ₂₀ H ₂₆ N ₂ O ₃					
					
Catalog number : 9652-050					
Name : 6α-Naltrexol hydrochloride			FW : 379.89	DEA schedule : 0	
Mol. formula : C ₂₀ H ₂₆ ClNO ₄					
Notes : <i>Naltrexone metabolite.</i>					
Catalog number : 9652-051			CASRN : 49625-89-0		
Name : 6β-Naltrexol hydrochloride			FW : 393.41	DEA schedule : 0	
Mol. formula : C ₂₀ H ₂₆ ClNO ₄					
					
Catalog number : 9652-055					
Name : 3-O-Methyl-6β-naltrexol			FW : 357.45	DEA schedule : 0	
Mol. formula : C ₂₁ H ₂₇ NO ₄					
					
Catalog number : 9652-052					
Name : [5,6,7,15,16- ² H ₆]-6β-Naltrexol hydrochloride			FW : 385.91	DEA schedule : 0	
Mol. formula : C ₂₀ H ₂₆ ClNO ₄					
					

Catalog number : 9652-019			CASRN : 16676-29-2
Name : Naltrexone hydrochloride			
Mol. formula :	$C_{20}H_{24}ClNO_4$	FW : 377.88	DEA schedule : 0
Notes : Narcotic antagonist			
References : Merck Index, 14th ed., Monograph 6363.			
Catalog number : 9652-020			CASRN : 16590-41-3
Name : Naltrexone base			
Mol. formula :	$C_{20}H_{23}NO_4$	FW : 341.42	DEA schedule : 0
Notes : Narcotic antagonist			
References : Merck Index, 14th ed., Monograph 6363.			
Catalog number : 9652-027			
Name : 3-O-Methylnaltrexone			
Mol. formula :	$C_{21}H_{25}NO_4$	FW : 355.44	DEA schedule : 0
Catalog number : 9652-014			
Name : [15,15,16- 2H_3]Naltrexone			
Mol. formula :	$C_{20}H_{23}NO_4$	FW : 344.42	DEA schedule : 0
Catalog number : 9652-012			
Name : [15,16- 3H_2]Naltrexone			
Mol. formula :	$C_{20}H_{23}NO_4$	FW : 345.42	DEA schedule : 0
Catalog number : 9652-013			
Name : [15,16- 3H_2]Naltrexone hydrochloride			
Mol. formula :	$C_{20}H_{24}ClNO_4$	FW : 381.88	DEA schedule : 0
Catalog number : 9652-025			
Name : Naltrexone-3- β -D-glucuronide			
Mol. formula :	$C_{26}H_{31}NO_{10}$	FW : 517.53	DEA schedule : 0

6 – Opioids and Opioid-related

Catalog number : 9652-064			CASRN : 122517-78-6
Name : Naltriben methanesulfonate; NTB methanesulfonate			
Mol. formula : C ₂₇ H ₂₉ NO ₇ S	FW : 511.60	DEA schedule : 0	
Notes : Selective δ-opioid receptor antagonist.			
References : Sofuoglu, M; Portoghese, PS; Takemori, AE <i>J Pharmacol Exp Ther</i> 1991 , 257, 676-80.			
Catalog number : 9652-065			
Name : Tritium-labeled Naltriben			
Mol. formula : C ₂₆ H ₂₅ NO ₄	FW : 419.50	DEA schedule : 0	
Notes : Selective δ-opioid receptor antagonist (tritium-labeled).			
References : Sofuoglu, M; Portoghese, PS; Takemori, AE <i>J Pharmacol Exp Ther</i> 1991 , 257, 676-80.			
Catalog number : 9652-060			CASRN : 111469-81-9
Name : Naltrindole hydrochloride; NTI hydrochloride			
Mol. formula : C ₂₆ H ₂₇ ClN ₂ O ₃	FW : 450.96	DEA schedule : 0	
Notes : Selective δ-opioid receptor antagonist.			
References : Portoghese, PS <i>Trends Pharmacol Sci</i> 1989 , 10, 230-5.			
Catalog number : NOCD-067			CASRN : 113158-35-3
Name : Norbinaltorphimine dihydrochloride; norBNI			
Mol. formula : C ₄₀ H ₄₅ Cl ₂ N ₃ O	FW : 734.73	DEA schedule : 0	
Notes : Selective κ-opioid antagonist.			
References : Birch, PJ; <i>et al. Eur J Pharmacol</i> 1987 , 144, 405-8. Portoghese, PS; Lipkowski, AW; Takemori, AE <i>Life Sci</i> 1987 , 40, 1287-92.			
Catalog number : 9652-006			
Name : (-)-Noroxymorphone			
Mol. formula : C ₁₆ H ₁₇ NO ₄	FW : 287.30	DEA schedule : 2	
Catalog number : 9652-007			
Name : (+)-Noroxymorphone; (+)-14-Hydroxydihydronormorphinone			
Mol. formula : C ₁₆ H ₁₇ NO ₄	FW : 287.30	DEA schedule : 2	
Catalog number : 9143-002			CASRN : 124-90-3
Name : Oxycodone hydrochloride; Dihydrohydroxycodone hydrochloride			
Mol. formula : C ₁₈ H ₂₂ ClNO ₄	FW : 351.84	DEA schedule : 2	
Notes : Narcotic analgesic			
References : <i>Merck Index</i> , 14th ed., Monograph 6959.			

Opioids: Phenylpiperidine Class

Catalog number : NOCD-056

CASRN : 785835-79-2

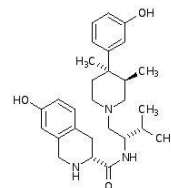
Name : JD^{Tic} dihydrochlorideMol. formula : C₂₈H₄₁Cl₂N₃O₃

FW : 538.56

DEA schedule : 0

Notes : *Selective kappa-opioid antagonist.*

References : Thomas, JB; Atkinson, RN; Rothman, RB; Fix, SE; Mascarella, SW; Vinson, NA; Xu, H; Dersch, CM; Lu, Y; Cantrell, BE; Zimmerman, DM; Carroll, FI *J Med Chem* **2001**, 44, 2687-90.



Catalog number : NOCD-059

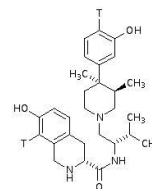
Name : [³H]JD^{Tic}Mol. formula : C₂₈H₃₉N₃O₃

FW : 469.64

DEA schedule : 0

Notes : *Selective kappa-opioid antagonist (tritium-labeled).*

References : Thomas, JB; *et al.* *J Med Chem* **2001**, 44, 2687-90.

**Opioids: Propoxyphene Class**

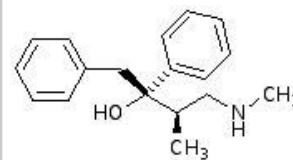
Catalog number : 9273-011

Name : (+)-α-Norpropoxyphene maleate

Mol. formula : C₂₅H₃₁NO₆

FW : 441.53

DEA schedule : 0



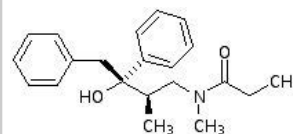
Catalog number : 9273-010

Name : (+)-α-N-Propionylnorpropoxyphene

Mol. formula : C₂₁H₂₇NO₂

FW : 325.45

DEA schedule : 0

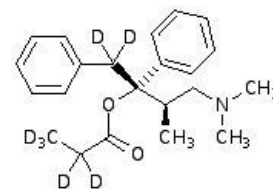


Catalog number : 9273-004

Name : [²H₇]Propoxyphene hydrochlorideMol. formula : C₂₂H₂₉NO₂

FW : 346.51

DEA schedule : 2



Catalog number : 9273-002

Name : (+)-α-Propoxyphene hydrochloride; Darvon hydrochloride

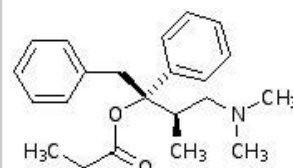
Mol. formula : C₂₂H₃₀ClNO₂

FW : 375.94

DEA schedule : 2

Notes : *Narcotic analgesic*

References : Miller, RR *Am J Hosp Pharm* **1977**, 34, 413-23.
Barkin, RL; Barkin SJ; Barkin DS *Am J Ther* **2006**, 13, 534-42.



Opioids: Thebaine Class

Catalog number : 9333-002

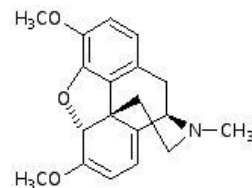
CASRN : 115-37-7

Name : Thebaine base

Mol. formula : $C_{19}H_{21}NO_3$

FW : 311.36

DEA schedule : 2

Notes : *Opiate; synthetic starting material for many opiate compounds*References : *Merck Index*, 14th ed., Monograph 9276.**Opioids (dosage form): Implantable**

Catalog number : 9250-014

Name : Methadone HCl implant pellets

DEA schedule : 2

Dosage
Form

Catalog number : 9300-008

Name : Morphine base implant pellets

DEA schedule : 2

Dosage
Form

Catalog number : 9300-009

Name : Placebo for morphine base implant pellets

DEA schedule : 0

Dosage
Form

Catalog number : 9652-021

Name : Naltrexone base implant pellets

DEA schedule : 0

Dosage
Form

Catalog number : 9652-022

Name : Placebo for naltrexone implant pellets

DEA schedule : 0

Dosage
Form

(All peptides prepared using solution-phase methods.)

Peptides: Caged**Catalog number :** MPSP-118**Name :** CNB-Y-DYN8 (CYD8)**Sequence :** H-(Carboxynitrobenzyl)Tyr-Gly-Gly-Phe-Leu- Arg-Arg-Ile-OH**Mol. Formula :** C₅₄H₇₇N₁₅O₁₄**FW :** 1159.31**Note :** *Photoactivatable analog of Dynorphin A (1-8).***Reference:** Banghart, MR; Sabatini BL, *Neuron* **2012**, 73, 249-59.**Catalog number :** MPSP-117**Name :** CNB-Y-LE (CYLE)**Sequence :** H-(Carboxynitrobenzyl)Tyr-Gly-Gly-Phe-Leu-OH**Mol. Formula :** C₃₆H₄₂N₆O₁₁**FW :** 734.76**Note :** *Photoactivatable analog of Leu-enkephalin.***Reference:** Banghart, MR; Sabatini BL, *Neuron* **2012**, 73, 249-59.**Catalog number :** MPSP-119**Name :** CNV-Y-LE**Sequence :** H-(Carboxynitroveratryl)Tyr-Gly-Gly-Phe-Leu-OH**Mol. Formula :** C₃₈H₄₆N₆O₁₃**FW :** 794.70**Note :** *Photoactivatable analog of Leu-enkephalin.***Reference:** Russell, AG; et al., *J Org Chem* **2010**, 75, 4648-4651.
Russell, AG; et al., *Photochem Photobiol Sci* **2012**, 11, 556-563.**Peptides: Cannabinoid-related****Catalog number :** MPSP-090**Name :** Hemopressin**Sequence :** H-Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-His-OH**Mol. Formula :** C₅₃H₇₇N₁₃O₁₂**FW :** 1088.3**Note :** *CB₁ cannabinoid receptor inverse agonist. Analgesic.***Reference :** Heimann, AS; et al. *Proc Natl Acad Sci USA* **2007**, 104, 20588-93.

Catalog number : PEPT-053	
Name : Hemopressin <i>tris</i> (trifluoroacetate)	
Sequence : H-Pro-Val-Asp-Phe-Lys-Phe-Leu-Ser-His	
Mol. Formula : C ₅₉ H ₈₁ F ₉ N ₁₃ O ₁₈	FW : 1431.36
Note : CB ₁ cannabinoid receptor inverse agonist. Analgesic.	
Reference : Heimann, AS; <i>et al. Proc Natl Acad Sci USA</i> 2007, 104, 20588-93.	
Catalog number : MPSP-096	
Name : [³ H ₂]Hemopressin	
Sequence : H-Pro-Val-Asn-[³ H]Phe-Lys-[³ H]Phe-Leu-Ser-His-OH	
Mol. Formula : C ₅₃ H ₇₇ N ₁₃ O ₁₂	FW : 1092.3
Note : Radiolabeled hemopressin (MPSP-90; PEPT-053).	
Catalog number : MPSP-091	
Name : [³ H ₄]Hemopressin	
Sequence : H-[³ H ₂]Pro-Val-Asn-[³ H]Phe-Lys-[³ H]Phe-Leu-Ser-His-OH	
Mol. Formula : C ₅₃ H ₇₇ N ₁₃ O ₁₂	FW : 1096.3
Note : Radiolabeled hemopressin (MPSP-90; PEPT-053).	
Catalog number : MPSP-098	
Name : ABz-Hemopressin	
Sequence : 2-ABz-Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-His-OH	
Mol. Formula : C ₆₀ H ₈₂ N ₁₄ O ₁₃	FW : 1207.1
Note : Hemopressin analog (MPSP-90; PEPT-053).	
Catalog number : MPSP-099	
Name : K ⁵ -ABz-Hemopressin	
Sequence : H-Pro-Val-Asn-Phe-Lys(2-ABz)-Phe-Leu-Ser-His-OH	
Mol. Formula : C ₆₀ H ₈₂ N ₁₄ O ₁₃	FW : 1207.1
Note : Hemopressin analog (MPSP-90; PEPT-053).	
Catalog number : MPSP-100	
Name : Asp ³ -Hemopressin	
Sequence : H-Pro-Val-Asp-Phe-Lys-Phe-Leu-Ser-His-OH	
Mol. Formula : C ₅₃ H ₇₆ N ₁₂ O ₁₃	FW : 1089.3
Note : Hemopressin analog (MPSP-90; PEPT-053).	

Catalog number : MPSP-094**Name :** DIT⁷-Hemopressin (1-6)**Sequence :** H-Pro-Val-Asn-Phe-Lys-Phe-Tyr(3,5-diiodo)-OH**Mol. Formula :** C₄₇H₆₁N₉O₁₀I₂**FW :** 1165.9**Note :** *Hemopressin analog (MPSP-90; PEPT-053).***Catalog number :** MPSP-101**Name :** D-His⁹-Hemopressin**Sequence :** H-Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-D-His-OH**Mol. Formula :** C₅₃H₇₇N₁₃O₁₂**FW :** 1088.3**Note :** *Hemopressin analog (MPSP-90; PEPT-053).***Catalog number :** PEPT-054**Name :** Leu⁶-Hemopressin**Sequence :** H-Pro-Val-Asn-Phe-Lys-Leu-Leu-Ser-His-OH**Mol. Formula :** C₅₀H₇₉N₁₃O₁₂**FW :** 1054.26**Note :** *CB₁ cannabinoid receptor antagonist.***Reference :** Gomes *et al.*, The FASEB Journal, 23, 1 (2009)**Catalog number :** MPSP-097**Name :** [³H]Leu⁶-Hemopressin**Sequence :** H-Pro-Val-Asn-[³H]Phe-Lys-Leu-Leu-Ser-His-OH**Mol. Formula :** C₅₀H₇₉N₁₃O₁₂**FW :** 1056.3**Note :** *Radiolabeled Leu⁶-Hemopressin (PEPT-054).***Catalog number :** MPSP-105**Name :** RVD-Hemopressin**Sequence :** H-Arg-Val-Asp-Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-His-OH**Mol. Formula :** C₆₈H₁₀₃N₁₉O₁₇**FW :** 1458.7**Note :** *Agonist of CB₁ cannabinoid receptors.***Reference :** Gomes *et al.*, FASEB J. 2009; 23(9): 3020-9**Catalog number :** PEPT-057**Name :** RVD-Leu⁶-Hemopressin *tetrakis*(trifluoroacetate)**Sequence :** H-Arg-Val-Asp-Pro-Val-Asn-Phe-Lys-Leu-Leu-Ser-His-OH**Mol. Formula :** C₆₅H₁₀₅N₁₉O₁₇ • 4 CF₃CO₂H**FW :** 1880.75**Note :** *N-terminal extended hemopressin, CB₁ receptor agonist.***Reference :** Dale, C. S.; Pagano Rde, L.; Rioli, V.; Hyslop, S.; Giorgi, R.; Ferro, E. S., *Peptides*, 26, 431 (2005).
Gomes, I.; Grushko, J. S.; Golebiewska, U.; Hoogendoorn, S.; Gupta, A.; Heimann, A. S.; Ferro, E. S.; Scarlata, S.; Fricker, L. D.; Devi, L. A., *FASEB J*, 23, 3020 (2009).

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Catalog number : MPSP-107	
Name : RVD-Hemopressin (1-7)	
Sequence : H-Arg-Val-Asp-Pro-Val-Asn-Phe-Lys-Phe-Leu-OH	
Mol. Formula : C ₅₉ H ₉₁ N ₁₅ O ₁₄	FW : 1234.5
Note : <i>RVD-Hemopressin analog (MPSP-105; PEPT-057).</i>	
Catalog number : MPSP-092	
Name : Tyr ⁷ -Hemopressin (1-6)	
Sequence : H-Pro-Val-Asn-Phe-Lys-Phe-Tyr-OH	
Mol. Formula : C ₄₇ H ₆₃ N ₉ O ₁₀	FW : 914.1
Note : <i>Analog of MPSP-090.</i>	
Catalog number : MPSP-093	
Name : [³ H ₂]Tyr ⁷ -Hemopressin (1-6)	
Sequence : H-Pro-Val-Asn-Phe-Lys-Phe-[³ H ₂]Tyr-OH	
Mol. Formula : C ₄₇ H ₆₁ N ₉ O ₁₀ H ₂	FW : 918.1
Note : <i>Radioligand for MPSP-092.</i>	
Catalog number : MPSP-103	
Name : VD-Hemopressin	
Sequence : H-Val-Asp-Pro-Val-Asn-Phe-Lys-Phe-Leu-Ser-His-OH	
Mol. Formula : C ₆₂ H ₉₁ N ₁₅ O ₁₆	FW : 1302.5
Note : <i>Agonist of CB₁ cannabinoid receptors.</i>	
Reference : Gomes et al., FASEB J. 2009; 23(9): 3020-9.	
Catalog number : PEPT-055	
Name : VD-Leu ⁶ -Hemopressin	
Sequence : H-Val-Asp-Pro-Val-Asn-Phe-Lys-Leu-Leu-Ser-His-OH	
Mol. Formula : C ₅₉ H ₉₃ N ₁₅ O ₁₆	FW : 1268.1
Note : <i>CB₁ cannabinoid receptor antagonist.</i>	
Reference : Gelman et al., J. Neurochem., 113, 871 (2010)	

Peptides: Nicotinic Class**Catalog number :** PEPT-058**Name :** α -Conotoxin MII *tris*(trifluoroacetate)**Sequence :** H-Gly-Cys-Cys-Ser-Asn-Pro-Val-Cys-His-Leu-Glu-His-Ser-Asn-Leu-Cys-NH₂ (disulfide bonds Cys2-Cys8, Cys3-Cys16)**Mol. Formula :** C₆₇H₁₀₃N₂₃O₂₂S₄ • 3 CF₃CO₂H**FW :** 2053.02**Note :** *Highly potent and selective $\alpha 3\beta 2$ nicotinic receptor antagonist.***Reference :** Cartier, G.; Yoshikami, D.; Gray, W.; Luo, S.; Olivera, B.; McIntosh, J., *Journal of Biological Chemistry*, **271**, 7522 (1966). Hill, J. M.; Oomen, C. J.; Miranda, L. P.; Bingham, J. P.; Alewood, P. F.; Craik, D. J., *Biochemistry*, **37**, 15621 (1998).**Catalog number :** MPSP-109**Name :** ω -Conotoxin GVIA**Sequence :** H-Cys-Lys-Ser-Hyp-Gly-Ser-Ser-Cys-Ser-Hyp-Thr-Ser-Tyr-Asn-Cys-Cys-Arg-Ser-Cys-Asn-Hyp-Tyr-Thr-Lys-Arg-Cys-Tyr-NH₂ (disulfide bonds Cys1-Cys16, Cys8-Cys19, Cys15-Cys26)**Mol. Formula :** C₁₂₀H₁₈₂N₃₈O₄₃S₆**FW :** 3037.4**Note :** *ω -Conotoxin GVIA, extracted from the venom of the fish-hunting cone snail *Conus geographus* is a neuronal calcium channel blocker.***Reference :** B.M. Olivera et al., *Biochemistry* **26**, 2086 (1987); D.R. Hillyard et al., *Neuron* **9**, 69 (1992); K. Sato et al., *Biochem. Biophys. Res. Commun.* **194**, 1292 (1993); J.R. Abbott et al., *Int. J. Devl Neurosci.* **12**, 43 (1994)**Catalog number :** MPSP-111**Name :** ω -Conotoxin MVIIA**Sequence :** H-Cys-Lys-Gly-Lys-Gly-Ala-Lys-Cys-Ser-Arg-Leu-Met-Tyr-Asp-Cys-Cys-Thr-Gly-Ser-Cys-Arg-Ser-Gly-Lys-Cys-NH₂ (disulfide bonds Cys1-Cys16, Cys8-Cys20, Cys15-Cys25)**Mol. Formula :** C₁₀₂H₁₇₂N₃₆O₃₂S₇**FW :** 2639.2**Note :** *ω -Conotoxin MVIIA, extracted from the venom of the fish-hunting cone snail *Conus magus* is a neuronal calcium channel blocker.***Reference :** B.M. Olivera et al., *Biochemistry* **26**, 2086 (1987); D.R. Hillyard et al., *Neuron* **9**, 69 (1992); J.R. Abbott et al., *Int. J. Devl Neurosci.* **12**, 43 (1994); R. Newcomb et al., *Brain Res.* **638**, 95 (1994)**Catalog number :** MPSP-113**Name :** ω -Conotoxin MVIIC**Sequence :** H-Cys-Lys-Gly-Lys-Gly-Ala-Pro-Cys-Arg-Lys-Thr-Met-Tyr-Asp-Cys-Cys-Ser-Gly-Ser-Cys-Gly-Arg-Arg-Gly-Lys-Cys-NH₂ (disulfide bonds Cys1-Cys16, Cys8-Cys20, Cys15-Cys26)**Mol. Formula :** C₁₀₆H₁₇₈N₄₀O₃₂S₇**FW :** 2749.3**Note :** *ω -Conotoxin MVIIC, extracted from the venom of the fish-hunting cone snail *Conus magus* is a neuronal calcium channel blocker.***Reference :** D.R. Hillyard et al., *Neuron* **9**, 69 (1992); R. Newcomb et al., *Brain Res.* **638**, 95 (1994)

Peptides: Opioid**Catalog number :** PEPT-042**Name :** Biphalin trifluoroacetate/acetate**Sequence :** H-Tyr-D-Ala-Gly-Phe-NH-Tyr-D-Ala-Gly-Phe-NH₂**Mol. Formula :** C₅₀H_{58.3}F_{5.7}N₁₀O₁₄**FW :** 1120.26**Note :** *Synthetic dimeric enkephalin having potent agonist activity at μ and δ receptors.***Reference :** Lipkowski, AW; et al. *Life Sci* **1987**, *40*, 2283-8.
Li, G; et al. *Bioorg Med Chem Lett* **1998**, *8*, 555-60.**Catalog number :** PEPT-015**Name :** N-(*tert*-Butyloxycarbonyl)tyrosyl-D-alanylglycyl-N α -methylphenylalanylglycine methyl ester**Sequence :** Boc-Tyr-D-Ala-N ^{α} -Me-Phe-Gly-OCH₃**Mol. Formula :** C₃₂H₄₃N₅O₉**FW :** 641.72**Catalog number :** PEPT-022**Name :** N-(*tert*-Butyloxycarbonyl)tyrosyl-O-*tert*-butyl-D-threonylglycylphenylalanylleucine hydrazide**Sequence :** Boc-Tyr(Bu^t)-D-Thr-Gly-Phe-Leu-NH-NH₂**Mol. Formula :** C₃₉H₅₉N₇O₉**FW :** 769.95**Catalog number :** PEPT-060**Name :** CJ-15,208**Sequence :** [c(Phe¹-D-Pro²-Phe³-Trp⁴)]**Mol. Formula :** C₃₄H₃₅N₅O₄ • CF₃CO₂H**FW :** 691.70**Note :** *Kappa-opioid receptor antagonist. Peptide content 63%.***Reference:** Ross, NC; et al., *Tetrahedron Lett.* **2010**, *51*, 5020-5023.**Catalog number :** PEPT-061**Name :** D-Trp⁴-CJ-15,208**Sequence :** [c(Phe¹-D-Pro²-Phe³-D-Trp⁴)]**Mol. Formula :** C₃₄H₃₅N₅O₄ • CF₃CO₂H**FW :** 691.70**Note :** *Kappa-opioid receptor antagonist. Peptide content 54%.***Reference:** Ross, NC; et al., *Tetrahedron Lett.* **2010**, *51*, 5020-5023.

Catalog number : MPSP-013**Name :** CTAP**Sequence :** H-D-Phe-c[Cys-Tyr-D-Trp-Arg-Thr-Pen]-Thr-NH₂**Mol. Formula :** C₅₁H₆₉N₁₃O₁₁S₂**FW :** 1103.0**Note :** *Cyclic somatostatin analog with high μ selectivity.***Reference :** Pelton, JT; *et al. J Med Chem* **1986**, 29, 2370-5.
Bilsky, EJ; *et al. J Pharmacol Exp Ther* **1996**, 277, 484-90.**Catalog number :** MPSP-014**Name :** [³H]CTAP**Sequence :** H-D-Phe[³H]-c[Cys-Tyr-D-Trp-Arg-Thr-Pen]-Thr-NH₂**Mol. Formula :** C₅₁H₆₈N₁₃O₁₁S₂3H**FW :** 1105.0**Note :** *Radioactive ligand for MPSP-013***Reference :** Abbruscato, TJ; *et al. J Pharmacol Exp Ther* **1997**, 280, 402-9.**Catalog number :** MPSP-054**Name :** CTOP**Sequence :** H-D-Phe-c[Cys-Tyr-D-Trp-Orn-Thr-Pen]-Thr-NH₂**Mol. Formula :** C₅₀H₆₇N₁₁O₁₁S₂**FW :** 1062.4**Note :** *Cyclic somatin analog with high μ selectivity.***Reference :** Gulya, K; *et al. Life Sci* **1986**, 38, 2221-9.
Pelton, JT; *et al. J Med Chem* **1986**, 29, 2370-5.**Catalog number :** MPSP-006**Name :** DADLE**Sequence :** H-Tyr-D-Ala-Gly-Phe-D-Leu-OH**Mol. Formula :** C₂₉H₃₉N₅O₇**FW :** 569.7**Note :** *Synthetic enkephalin agonist having improved biological stability and some selectivity for the δ receptor over the μ receptor. It shows roughly the same anti-nociceptive activity as β -endorphin.***Reference :** Chang, KJ; Cuatrecasas P *J Biol Chem* **1979**, 254, 2610-8.
Gorin, FA; *et al. J Med Chem* **1980**, 23, 1113-22.
Knapp, RJ; Yamamura HI *Biochem Pharmacol* **1992**, 44, 1687-95.**Catalog number :** PEPT-001**Name :** DADLE hydrochloride; [D-Ala²,D-Leu⁵]Enkephalin**Sequence :** H-Tyr-D-Ala-Gly-Phe-D-Leu-OH**Mol. Formula :** C₂₉H₄₀ClN₅O₇**FW :** 606.12**Note :** *Synthetic enkephalin agonist having improved biological stability and some selectivity for the δ receptor over the μ receptor.***Reference :** Chang, KJ; Cuatrecasas, PJ *J Biol Chem* **1979**, 254, 2610.
Gorin, FA; *et al. J Med Chem* **1980**, 23, 1113.
Knapp, RJ; Yamamura, HI *Biochem Pharmacol* **1992**, 44, 1687.

Catalog number : MPSP-007	
Name : [³ H ₂]DADLE	
Sequence : H-Tyr[³ H ₂]-D-Ala-Gly-Phe-D-Leu-OH	
Mol. Formula : C ₂₉ H ₃₇ N ₅ O ₇ H ₂	FW : 573.7
Note : <i>Tritiated DADLE</i>	
Reference : Luciano, MG; <i>et al. Brain Res Bull</i> 1981 , 7, 677-82.	
Catalog number : PEPT-008	
Name : DALA hydrochloride	
Sequence : H-Tyr-D-Ala-Gly-Phe-Met-NH ₂	
Mol. Formula : C ₂₈ H ₃₉ ClN ₆ O ₆ S	FW : 623.17
Note : <i>Potent, long-lasting analog of [Met5]enkephalin.</i>	
Reference : Pert, CB; <i>et al. Science</i> 1976 , 194, 330.	
Catalog number : MPSP-034	
Name : DALCE	
Sequence : H-Tyr-D-Ala-Gly-Phe-Leu-Cys-OH	
Mol. Formula : C ₃₂ H ₄₃ N ₆ O ₈ S	FW : 673.0
Note : <i>Irreversible antagonist for the δ1 receptor.</i>	
Reference : Bowen, WD; <i>et al. J Biol Chem</i> 1987 , 262, 13434-9. Traynor, JR; Elliott, J <i>TIPS</i> 1993 , 14, 84.	
Catalog number : MPSP-035	
Name : [³ H ₂]DALCE	
Sequence : H-Tyr[³ H ₂]-D-Ala-Gly-Phe-Leu-Cys-OH	
Mol. Formula : C ₃₃ H ₄₄ N ₆ O ₁₀ S ₃ H ₂	FW : 677.0
Note : <i>Radioactive ligand for MPSP-034</i>	
Catalog number : PEPT-035	
Name : DALCE trifluoroacetate	
Sequence : Tyr-D-Ala-Gly-Phe-Leu-Cys-OH	
Mol. Formula : C ₃₄ H ₄₅ F ₃ N ₆ O ₁₀ S	FW : 786.82
Note : <i>Irreversible antagonist for the δ1 receptor.</i>	
Reference : Bowen, WD; <i>et al. J Biol Chem</i> 1987 , 262, 13434-9. Traynor, JR; Elliott, J <i>TIPS</i> 1993 , 14, 84.	

Catalog number : MPSP-027**Name :** DALDA**Sequence :** H-Tyr-D-Arg-Phe-Lys-NH₂**Mol. Formula :** C₃₀H₄₅N₉O₅**FW :** 611.8**Note :** *Synthetic tetrapeptide agonist highly selective for the μ receptor.***Reference :** Schiller, PW; *et al. J Med Chem* **1989**, 32, 698–703.**Catalog number :** MPSP-084**Name :** (DMT)¹-DALDA**Sequence :** H-DMT-D-Arg-Phe-Lys-NH₂**Mol. Formula :** C₃₂H₄₉N₉O₅**FW :** 639.6**Note :** *Super DALDA***Reference :** Zhao, K; *et al. J Biol Chem* **2004**, 279, 34682–90.**Catalog number :** PEPT-038**Name :** DALDA *tris*(trifluoroacetate)**Sequence :** H-Tyr-D-Arg-Phe-Lys-NH₂**Mol. Formula :** C₃₆H₄₈F₉N₉O₁₁**FW :** 611.75**Note :** *Synthetic tetrapeptide agonist highly selective for the μ receptor.***Reference :** Schiller, PW; *et al. J Med Chem* **1989**, 32, 698.**Catalog number :** PEPT-047**Name :** Super DALDA; SS-02; [Dmt1]DALDA *tris*(trifluoroacetate)**Sequence :** Dmt-D-Arg-Phe-Lys-NH₂**Mol. Formula :** C₃₈H₅₂F₉N₉O₁₁**FW :** 981.354**Reference :** Zhao, K; *et al. J Biol Chem* **2004**, 279, 34682-90.
Schiller, PW; *et al. Eur J Med Chem* **2000**, 35, 895-901.**Catalog number :** MPSP-028**Name :** [³H₂]DALDA**Sequence :** H-Tyr[³H₂]-D-Arg-Phe-Lys-NH₂**Mol. Formula :** C₃₀H₄₃N₉O₅H₂**FW :** 615.8**Note :** *Radioactive ligand for MPSP-027*

Catalog number : MPSP-011	
Name : DAMGO	
Sequence : H-Tyr-D-Ala-Gly-N ^α -Me-Phe-Gly-ol	
Mol. Formula : C ₂₆ H ₃₅ N ₅ O ₆	FW : 513.7
Note : <i>Synthetic enkephalin agonist highly selective for the μ receptor.</i>	
Reference : Handa, BK; <i>et al. Eur J Pharmacol</i> 1981 , 70, 531–40. Kosterlitz, HW; Paterson SJ; Robson LE <i>Br J Pharmacol</i> 1981 , 73, 939–49. Reddy, PA; <i>et al. Org Prep Proc Internat</i> 1995 , 27, 469.	
Catalog number : PEPT-014	
Name : DAMGO trifluoroacetate	
Sequence : Tyr-D-Ala-Gly-N ^α -Me-Phe-Gly-ol	
Mol. Formula : C ₂₈ H ₃₆ F ₃ N ₅ O ₈	FW : 627.62
Note : <i>Synthetic enkephalin agonist highly selective for the μ receptor.</i>	
Reference : Handa, BK; <i>et al. Eur J Pharmacol</i> 1981 , 70, 531. Kosterlitz, HW; Paterson, SJ <i>Br J Pharmacol</i> 1981 , 73, 299P. Reddy, PA; <i>et al. Org Prep Proc Internat</i> 1995 , 27, 469.	
Catalog number : MPSP-012	
Name : [³ H ₂]DAMGO	
Sequence : H-Tyr[³ H ₂]-D-Ala-Gly-N ^α -Me-Phe-Gly-ol	
Mol. Formula : C ₂₆ H ₃₃ N ₅ O ₆ H ₂	FW : 517.7
Note : <i>Radioactive ligand for MPSP-011</i>	
Reference : Zajac, JM; Roques BP <i>Life Sci</i> 1983 , 33 Suppl 1, 155–8.	
Catalog number : MPSP-030	
Name : Deltorhin I	
Sequence : H-Tyr-D-Ala-Phe-Asp-Val-Val-Gly-NH ₂	
Mol. Formula : C ₃₇ H ₅₂ N ₈ O ₁₀	FW : 768.9
Note : <i>Selective δ receptor agonist isolated from the skin of Phyllomedusa bicolor</i>	
Reference : Amodeo, P; <i>et al. Pept Res</i> 1992 , 5, 48–55. Melchiorri, P; <i>et al. Eur J Pharmacol</i> 1991 , 195, 201–7. Salvadori, S; <i>et al. J Med Chem</i> 1991 , 34, 1656–61. Lazarus, LH; <i>et al. J Med Chem</i> 1991 , 34, 1350–5.	
Catalog number : PEPT-033	
Name : Deltorhin I hemitrifluoroacetate	
Sequence : Tyr-D-Ala-Phe-Asp-Val-Val-Gly-NH ₂	
Mol. Formula : C ₃₇ H ₅₂ N ₈ O ₁₀	FW : 768.87
Note : <i>Selective δ receptor agonist isolated from the skin of Phyllomedusa bicolor.</i>	
Reference : Erspamer, V; <i>et al. Proc Natl Acad Sci USA</i> 1989 , 86, 5188. Salvadori, S; <i>et al. J Med Chem</i> 1991 , 34, 1656. DLHeyl and SESchullery, <i>CurrMedChem.</i> , 4, 117 (1997).	

Catalog number : MPSP-031**Name :** [³H₂]Deltorphan I**Sequence :** H-Tyr[³H₂]-D-Ala-Phe-Asp-Val-Val-Gly-NH₂**Mol. Formula :** C₃₇H₅₀N₈O₁₀H₂**FW :** 772.9**Note :** *Radioactive ligand for MPSP-030***Reference :** Erspamer, V; *et al. Proc Natl Acad Sci USA* **1989**, *86*, 5188.**Catalog number :** MPSP-036**Name :** Deltorphan II**Sequence :** H-Tyr-D-Ala-Phe-Glu-Val-Val-Gly-NH₂**Mol. Formula :** C₃₈H₅₄N₈O₁₀**FW :** 782.9**Note :** *A selective δ-opioid receptor agonist isolated from the skin of Phyllomedusa bicolor***Reference :** Amodeo, P; *et al. Pept Res* **1992**, *5*, 48-55.
Melchiorri, P; *et al. Eur J Pharmacol* **1991**, *195*, 201-7.
Salvadori, S; *et al. J Med Chem* **1991**, *34*, 1656-61.
Lazarus, LH; *et al. J Med Chem* **1991**, *34*, 1350-5.**Catalog number :** PEPT-034**Name :** Deltorphan II trifluoroacetate**Sequence :** Tyr-D-Ala-Phe-Glu-Val-Val-Gly-NH₂**Mol. Formula :** C₄₀H₅₅F₃N₈O₁₂**FW :** 896.92**Note :** *Selective δ2 receptor agonist isolated from the skin of Phyllomedusa bicolor.***Reference :** Erspamer, V; *et al. Proc Natl Acad Sci USA* **1989**, *86*, 5188.
Salvadori, S; *et al. J Med Chem* **1991**, *34*, 1656.
Traynor, JR; Elliott, J *TIPS* **1993**, *14*, 84.**Catalog number :** MPSP-037**Name :** [³H₂]Deltorphan II**Sequence :** H-Tyr[³H₂]-D-Ala-Phe-Glu-Val-Val-Gly-NH₂**Mol. Formula :** C₃₈H₅₂N₈O₁₀H₂**FW :** 786.9**Note :** *Radioactive ligand for MPSP-036***Reference :** Erspamer, V; *et al. Proc Natl Acad Sci USA* **1989**, *86*, 5188.**Catalog number :** PEPT-037**Name :** Dermorphin trifluoroacetate**Sequence :** Tyr-D-Ala-Phe-Gly-Tyr-Pro-Ser-NH₂**Mol. Formula :** C₄₂H₅₁F₃N₈O₁₂**FW :** 916.91**Note :** *Selective μ receptor agonist isolated from the skin of Phyllomedusa sauvagei.***Reference :** Montecucchi, PC; *et al. Int J Peptide Protein Res* **1981**, *17*, 275.
Melchiorri, P; Negri, L *Gen Pharmac* **1996**, *27*, 1099.

Catalog number : PEPT-049	
Name : 2',6'-Dimethyltyrosyl-Ng-nitro-D-arginylphenylalanyl-Ne-2-Cl-Cbz-lysine trifluoroacetate	
Sequence : Dmt-D-Arg(NO ₂)-Phe-Lys(2-Cl-Cbz)-NH ₂	
Mol. Formula : C ₄₂ H ₅₅ ClF ₃ N ₁₀ O ₁₁	FW : 949.376

Reference : Zhao, K; *et al. J Biol Chem* 2004, 279, 34682-90.

Catalog number : PEPT-048	
Name : 2',6'-Dimethyltyrosyl-Ng-nitro-D-arginylphenylalanyllysine trifluoroacetate	
Sequence : Dmt-D-Arg(NO ₂)-Phe-Lys-NH ₂	
Mol. Formula : C ₃₆ H ₅₀ F ₆ N ₁₀ O ₁₁	FW : 944.2

Reference : Zhao, K; *et al. J Biol Chem* 2004, 279, 34682-90.

Catalog number : PEPT-046	
Name : DIPP-NH ₂ [Ψ] bis(Trifluoroacetate)	
Sequence : 2TFA •Dmt-TicΨ[CH ₂ NH]Phe-Phe-NH ₂	
Mol. Formula : C ₄₃ H ₄₇ F ₆ N ₅ O ₈	FW : 875.85
Note : <i>Synthetic high potency pseudopeptide having balanced μ agonist/δ antagonist properties.</i>	

Reference : Schiller, PW; *et al. J Med Chem* 1999, 42, 3520-6.

Catalog number : MPSP-001	
Name : DPDPE	
Sequence : H-Tyr-c[D-Pen-Gly-Phe-D-Pen]-OH	
Mol. Formula : C ₃₀ H ₃₉ N ₇ O ₅ S ₂	FW : 645.8
Note : <i>Synthetic, conformationally restricted enkephalin agonist selective for the δ1 receptor. Minimal cross-reactivity with μ- and κ- receptors.</i>	

Reference : Mosberg, HI; *et al. Proc Natl Acad Sci USA* 1983, 80, 5871-4.
 Akiyama, K; *et al. Proc Natl Acad Sci USA* 1985, 82, 2543-7.
 Mosberg, HI; Omnaas JR; Goldstein A *Mol Pharmacol* 1987, 31, 599-602.
 Knapp, RJ; Yamamura HI *Biochem Pharmacol* 1992, 44, 1687-95.

Catalog number : MPSP-044	
Name : p-Cl-Phe-DPDPE	
Sequence : H-Tyr-c[D-Pen-Gly-4-Cl-Phe-D-Pen]-OH	
Mol. Formula : C ₃₀ H ₃₈ ClN ₅ O ₇ S ₂	FW : 680.4
Note : <i>Analog of DPDPE. δ-selectivity 5 times higher than DPDPE due to a 5-fold increased δ-receptor affinity.</i>	

Reference : Toth, G; *et al. J Med Chem* 1990, 33, 249-53.
 Vaughn, LK; *et al. Life Sci* 1989, 45, 1001-8.

Catalog number : PEPT-010**Name :** DPDPE trifluoroacetate; [D-Pen²,D-Pen⁵]Enkephalin**Sequence :** H-Tyr-c[D-Pen-Gly-Phe-D-Pen]-OH**Mol. Formula :** C₃₂H₄₀F₃N₅O₉S₂**FW :** 759.82**Note :** *Synthetic, conformationally restricted enkephalin agonist selective for the δ1 receptor.***Reference :** Mosberg, HI; *et al. Proc Natl Acad Sci USA* **1983**, *80*, 5871-4.
Knapp, RJ; Yamamura, HI *Biochem Pharmacol* **1992**, *44*, 1687.
Traynor, JR; Elliott, J *TIPS* **1993**, *14*, 84.**Catalog number :** MPSP-002**Name :** [³H₂]DPDPE**Sequence :** H-Tyr[³H₂]-c[D-Pen-Gly-Phe-D-Pen]-OH**Mol. Formula :** C₃₀H₃₇N₇O₅S₂₃H₂**FW :** 649.8**Note :** *Radioactive ligand for MPSP-001***Reference :** Cotton, R; *et al. Eur J Pharmacol* **1984**, *97*, 331-2.**Catalog number :** MPSP-045**Name :** [³H₂]p-Cl-Phe-DPDPE**Sequence :** H-Tyr[³H₂]-c[D-Pen-Gly-4-Cl-Phe-D-Pen]-OH**Mol. Formula :** C₃₀H₃₆ClN₅O₇S₂₃H₂**FW :** 684.4**Note :** *Radioactive ligand for MPSP-044***Catalog number :** MPSP-086**Name :** DV1.2.DA1.5.Lan.Enk.(DPDPE lanthionine analog)**Sequence :** H-Tyr-[D-S(Val L-Gly-Phe-D-Ala) L]-OH**Mol. Formula :** C₂₈H₃₅N₅O₇S**FW :** 584.7**Note :** *DPDPE lanthionine analog.***Catalog number :** MPSP-003**Name :** DSLET**Sequence :** H-Tyr-D-Ser-Gly-Phe-Leu-Thr-OH**Mol. Formula :** C₃₃H₄₆N₆O₁₀**FW :** 686.9**Note :** *Synthetic enkephalin agonist selective for the δ2 receptor.***Reference :** Fournie-Zaluski, MC; *et al. Mol Pharmacol* **1981**, *20*, 484-91.
Traynor, JR; Elliott J *Trends Pharmacol Sci* **1993**, *14*, 84-6.

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Catalog number : PEPT-039	
Name : DSLET trifluoroacetate	
Sequence : Tyr-D-Ser-Gly-Phe-Leu-Thr-OH	
Mol. Formula : C ₃₅ H ₄₇ F ₃ N ₆ O ₁₂	FW : 800.79
Note : <i>Synthetic enkephalin agonist selective for the δ2 receptor.</i>	
Reference : Gacel, G; <i>et al. FEBS Lett</i> 1980 , <i>118</i> , 245. Gacel, G; <i>et al. J Med Chem</i> 1981 , <i>24</i> , 1119. Traynor, JR; Elliott, J <i>TIPS</i> 1993 , <i>14</i> , 84.	
Catalog number : MPSP-004	
Name : [³ H ₂]DSLET	
Sequence : H-Tyr[³ H ₂]-D-Ser-Gly-Phe-Leu-Thr-OH	
Mol. Formula : C ₃₃ H ₄₄ N ₆ O ₁₀ H ₂	FW : 690.9
Note : <i>Radioactive ligand for MPSP-003</i>	
Reference : David, M; <i>et al. Eur J Pharmacol</i> 1982 , <i>78</i> , 385-7.	
Catalog number : MPSP-032	
Name : DSTBULET	
Sequence : H-Tyr-D-Ser(Bu ^t)-Gly-Phe-Leu-Thr-OH	
Mol. Formula : C ₃₇ H ₄₄ N ₆ O ₁₀	FW : 742.9
Note : <i>Synthetic enkephalin agonist selective for the δ receptor</i>	
Reference : Delay-Goyet, P; <i>et al. J Biol Chem</i> 1988 , <i>263</i> , 4124-30. Gacel, G; <i>et al. J Med Chem</i> 1988 , <i>31</i> , 1891-7.	
Catalog number : PEPT-043	
Name : DSTBULET acetate	
Sequence : H-Tyr-D-Ser(Bu ^t)-Gly-Phe-Leu-Thr-OH	
Mol. Formula : C ₃₉ H ₅₈ N ₆ O ₁₂	FW : 802.92
Note : <i>Synthetic enkephalin agonist selective for the δ receptor.</i>	
Reference : Delay-Goyet, P; <i>et al. J Biol Chem</i> 1988 , <i>263</i> , 4124-30. Gacel, G; <i>et al. J Med Chem</i> 1988 , <i>31</i> , 1891-7.	
Catalog number : MPSP-033	
Name : [³ H ₂]DSTBULET	
Sequence : H-Tyr[³ H ₂]-D-Ser(Bu ^t)-Gly-Phe-Leu-Thr-OH	
Mol. Formula : C ₃₃ H ₄₄ N ₆ O ₁₀ H ₂	FW : 746.9
Note : <i>Radioactive ligand for MPSP-032</i>	
Reference : Delay-Goyet, P <i>NIDA Res Mono</i> 1986 , <i>75</i> , 197-200.	

Catalog number : MPSP-005**Name :** DTLET**Sequence :** H-Tyr-D-Ser-Gly-Phe-Leu-Thr-OH**Mol. Formula :** C₃₄H₄₈N₆O₁₀**FW :** 700.9**Note :** *Synthetic enkephalin agonist moderately selective for the δ receptor.***Reference :** Zajac, JM; *et al. Biochem Biophys Res Commun* **1983**, *111*, 390–7.
Delay-Goyet, P; *et al. FEBS Lett* **1985**, *183*, 439–43.**Catalog number :** PEPT-021**Name :** DTLET trifluoroacetate**Sequence :** Tyr-D-Thr-Gly-Phe-Leu-Thr-OH**Mol. Formula :** C₃₆H₄₉F₃N₆O₁₂**FW :** 814.81**Reference :** Zajac, JM; *et al. Biochem Biophys Res Commun* **1983**, *111*, 390.
Delay-Goyet, P; *et al. FEBS Lett* **1985**, *183*, 439.**Catalog number :** MPSP-088**Name :** [(2S)-Mdp]¹-Dyn NH₂ (1–11); Dynantin**Sequence :** [(2S)-Mdp]¹-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-NH₂**Mol. Formula :** C₆₆H₁₀₉N₂₁O₁₂**FW :** 1388.4**Note :** *Highly and potent selective kappa antagonist.***Reference :** Lu, Y *et al. J Med Chem* **2001**, *44*, 3048–53.**Catalog number :** PEPT-056**Name :** Dynantin**Sequence :** [2S]-Mdp-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-NH₂**Mol. Formula :** C₆₆H₁₀₉N₂₁O₁₂ • 4 CF₃CO₂H**FW :** 1844.41**Note :** *κ -Opioid antagonist.***Reference :** (1) Lu, Y.; *et al., J Med Chem*, **2001**, *44*, 3048. (2) Schiller, P. W.; *et al., Life Sci*, **2003**, *73*, 691.**Catalog number :** MPSP-019**Name :** Dynorphin (1–11)**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-OH**Mol. Formula :** C₆₃H₁₀₃N₂₁O₁₃**FW :** 1362.7**Note :** *Truncated analog of dynorphin A with similar potency*

Catalog number : MPSP-020**Name :** [³H₂]Dynorphin (1-11)**Sequence :** H-Tyr[³H₂]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-OH**Mol. Formula :** C₆₃H₁₀₁N₂₁O₁₃₃H₂**FW :** 1366.7**Note :** *Radioactive ligand for MPSP-019***Reference :** Chavkin, C; Goldstein, A *Proc Natl Acad Sci USA* **1981**, 78, 6543-7.**Catalog number :** MPSP-016**Name :** Dynorphin (1-13)**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-OH**Mol. Formula :** C₇₅H₁₂₆N₂₄O₁₅**FW :** 1604.2**Note :** *Truncated analog of dynorphin A with similar potency***Reference :** Goldstein, A; *et al. Proc Natl Acad Sci USA* **1979**, 78, 6666-70.**Catalog number :** MPSP-017**Name :** Dynorphin (1-13) amide**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-NH₂**Mol. Formula :** C₇₅H₁₂₇N₂₅O₁₄**FW :** 1603.2**Note :** *Truncated amide analog of dynorphin A with similar potency***Reference :** Chavkin, C; Goldstein, A *Proc Natl Acad Sci USA* **1981**, 78, 6543-7.**Catalog number :** MPSP-018**Name :** [³H₂]Dynorphin (1-13) amide**Sequence :** H-Tyr[³H₂]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-NH₂**Mol. Formula :** C₇₅H₁₂₅N₂₅O₁₄₃H₂**FW :** 1607.2**Note :** *Radioactive ligand for MPSP-017***Catalog number :** MPSP-021**Name :** Dynorphin (1-9)**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-OH**Mol. Formula :** C₅₂H₈₄N₁₈O₁₁**FW :** 1137.5**Note :** *Selective ligand for κ-binding sites.***Reference :** Corbett, AD; *et al. Nature* **1982**, 299, 79-81.
Yoshimura, K; *et al. J Pharmacol Exp Ther* **1982**, 222, 71-9.

Catalog number : MPSP-022**Name :** [³H₂]Dynorphin (1-9)**Sequence :** H-Tyr[³H₂]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-OH**Mol. Formula :** C₅₂H₈₂N₁₈O₁₁₃H₂**FW :** 1141.5**Note :** *Radioactive ligand for MPSP-021***Reference :** Robson, LE; *et al. Life Sci* **1983**, *33 Suppl 1*, 283-6.
Wood, MS; Rodriguez FD; Traynor JR *Neuropharmacology* **1989**, *28*, 1041-6.**Catalog number :** MPSP-048**Name :** Dynorphin (2-11)**Sequence :** H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-OH**Mol. Formula :** C₃₃H₄₄N₆O₁₀**FW :** 1199.7**Note :** *Dynorphin truncation which does not bind to opioid receptors***Reference :** Takemori, AE; Loh HH; Lee NM *J Pharmacol Exp Ther* **1993**, *266*, 121-4.
Meyer, ME *Pharmacol Biochem Behav* **1993**, *44*, 329-32.**Catalog number :** MPSP-046**Name :** Dynorphin (2-13)**Sequence :** H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-OH**Mol. Formula :** C₆₆H₁₁₇N₂₃O₁₃**FW :** 1441.1**Note :** *Dynorphin truncation that does not bind to opioid receptors. Highly immunoreactive as the first tyrosine appears not to be essential for immunoreactivity.***Reference :** Young, EA; *et al. Peptides* **1987**, *8*, 701-7.
Walker, JM; *et al. Eur J Pharmacol* **1982**, *85*, 121-2.**Catalog number :** MPSP-040**Name :** Dynorphin (2-17)**Sequence :** H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH**Mol. Formula :** C₉₀H₁₅₆N₃₀O₂₁**FW :** 1984.8**Note :** *Dynorphin truncation that does not bind to opioid receptors.***Reference :** Chavkin, C; Goldstein, A *Proc Natl Acad Sci USA* **1981**, *78*, 6543-6547.**Catalog number :** MPSP-041**Name :** [³H]Dynorphin (2-17)**Sequence :** H-Gly-Gly-Phe[³H]-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH**Mol. Formula :** C₉₀H₁₅₅N₃₀O₂₁₃H**FW :** 1986.8**Note :** *Radioactive ligand for MPSP-040*

Catalog number : MPSP-050	
Name : Dynorphin A (1-8)	
Sequence : H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH	
Mol. Formula : C ₄₆ H ₇₂ N ₁₄ O ₁₀	FW : 981.4
Note : <i>Endogenous peptide agonist for opioid receptors.</i>	
Reference : Nakao, K; <i>et al. Biochem Biophys Res Commun</i> 1983 , 117, 695-701. Seizinger, BR; <i>et al. J Neurochem</i> 1984 , 42, 447-57. Bell, KM; Traynor JR <i>Can J Physiol Pharmacol</i> 1998 , 76, 325-33.	
Catalog number : MPSP-066	
Name : [³ Ψ ⁴ ,D-Leu ⁸]Dynorphin A (1-8)amide	
Sequence : H-Tyr-Gly-Gly-Ψ(CH ₂ -NH)-Phe-Leu-Arg-Arg-D-Leu-NH ₂	
Mol. Formula : C ₃₃ H ₄₄ N ₆ O ₁₀	FW : 967.4
Note : <i>Kappa-selective dynorphin A analog</i>	
Reference : Ambo, A; <i>et al. Chem Pharm Bull</i> 1995 , 43, 1547-50.	
Catalog number : MPSP-052	
Name : Dynorphin A (2-8)	
Sequence : H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH	
Mol. Formula : C ₃₇ H ₆₃ N ₁₃ O ₈	FW : 818.2
Note : <i>Truncated analog of dynorphin A which does not bind to opioid receptors</i>	
Reference : Takemori, AE; Loh HH; Lee NM <i>J Pharmacol Exp Ther</i> 1993 , 266, 121-4. Meyer, ME <i>Pharmacol Biochem Behav</i> 1993 , 44, 329-32.	
Catalog number : PEPT-040	
Name : Dynorphin A 1-8 <i>tris</i> (trifluoroacetate)	
Sequence : H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH	
Mol. Formula : C ₅₂ H ₇₅ F ₉ N ₁₄ O ₁₆	FW : 1323.24
Note : <i>Endogenous peptide agonist for opioid receptors.</i>	
Reference : Weber, E; <i>et al. Nature</i> 1982 , 299, 77. Corbett, A; <i>et al. Nature</i> 1982 , 299, 79. Bell, KM; Traynor, JR <i>Can J Physiol Pharmacol</i> 1998 , 76, 325.	
Catalog number : PEPT-041	
Name : Dynorphin A 2-8 <i>tris</i> (trifluoroacetate)	
Sequence : H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH	
Mol. Formula : C ₄₃ H ₆₆ F ₉ N ₁₃ O ₁₄	FW : 1159.69
Note : <i>Des-Tyr1 analog of dynorphin A (1-8).</i>	
Reference : Takemori, AE; Loh HH; Lee NM <i>J Pharmacol Exp Ther</i> 1993 , 266, 121-4. Meyer, ME <i>Pharmacol Biochem Behav</i> 1993 , 44, 329-32.	

Catalog number : MPSP-023**Name :** Dynorphin B**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Gln-Phe-Lys-Val-Val-Thr-OH**Mol. Formula :** C₇₄H₁₁₅N₂₁O₁₇**FW :** 1571.1**Note :** *N-terminal part of leumorphin***Reference :** Kilpatrick, DL; *et al. Proc Natl Acad Sci USA* **1982**, 79, 6480–83.
Seizinger, BR; *et al. J Neurochem* **1984**, 42, 447–457.**Catalog number :** MPSP-015**Name :** Dynorphin(1–17)**Sequence :** H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH**Mol. Formula :** C₉₉H₁₅₅N₃₁O₂₃**FW :** 2147.8**Note :** *Considered the endogenous ligand for kappa receptors.***Reference :** Goldstein, A; *et al. Proc Natl Acad Sci USA* **1981**, 78, 7219–23.
Cox, BM; *et al. Life Sci* **1975**, 16, 1777–1782.
Goldstein, A; *et al. Proc Natl Acad Sci USA* **1979**, 78, 6666–70.**Catalog number :** MPSP-070**Name :** Endomorphin-1**Sequence :** H-Tyr-Pro-Trp-Phe-NH₂**Mol. Formula :** C₃₄H₃₈N₆O₅**FW :** 610.7**Note :** *Endogenous tetrapeptide agonist selective for the μ receptor.***Reference :** Zadina, JE; *et al. Nature* **1997**, 386, 499.
Goldberg, IE; *et al. JPharmacol Exp Ther* **1998**, 286, 1007.
McConalogue, K; *et al. Neuroscience* **1999**, 90, 1051.**Catalog number :** PEPT-044**Name :** Endomorphin-1 Trifluoroacetate/Acetate**Sequence :** TFA/HOAc •Tyr-Pro-Trp-Phe-NH₂**Mol. Formula :** C₃₆H_{39.15}F_{2.85}N₆O₇**FW :** 722.04**Note :** *Endogenous tetrapeptide agonist selective for the μ receptor.***Reference :** JEZadina *et al.*., *Nature*, 386, 499 (1997)
IEGoldberg *et al.*., *JPharmacolExpTher.*, 286, 1007 (1998)
KMcConalogue *et al.*., *Neuroscience*, 90, 1051 (1999)**Catalog number :** MPSP-073**Name :** Endomorphin-2**Sequence :** H-Tyr-Pro-Phe-Phe-NH₂**Mol. Formula :** C₃₂H₃₇N₅O₅**FW :** 571.7**Note :** *Endogenous tetrapeptide agonist selective for the μ receptor.***Reference :** Zadina, JE; *et al. Nature* **1997**, 386, 499–502.
Goldberg, IE; *et al. J Pharmacol Exp Ther* **1998**, 286, 1007–13.
McConalogue, K; *et al. Neuroscience* **1999**, 90, 1051–9.

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Catalog number : PEPT-045	
Name : Endomorphin-2 Trifluoroacetate/Acetate	
Sequence : TFA/HOAc •Tyr-Pro-Phe-Phe-NH ₂	
Mol. Formula : C ₃₄ H _{38.3} F _{2.7} N ₅ O ₇	FW : 680.30
Note : <i>Endogenous tetrapeptide agonist selective for the μ receptor.</i>	
Reference : Zadina, JE; <i>et al. Nature</i> 1997 , 386, 499-502. Goldberg, IE; <i>et al. J Pharmacol Exp Ther</i> 1998 , 286, 1007-13. McConalogue, K; <i>et al. Neuroscience</i> 1999 , 90, 1051-9.	
Catalog number : MPSP-074	
Name : [³ H ₂]Endomorphin-2	
Sequence : H-Tyr[³ H ₂]-Pro-Phe-Phe-NH ₂	
Mol. Formula : C ₃₂ H ₃₅ N ₅ O _{5.3} H ₂	FW : 575.7
Note : <i>Radioactive ligand for MPSP-073</i>	
Reference : Spetee, M; <i>et al. Biochem Biophys Res Commun</i> 1998 , 250, 720-5.	
Catalog number : MPSP-024	
Name : β-Endorphin	
Sequence : H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-Tyr-Lys-Lys-Gly-Glu-OH	
Mol. Formula : C ₁₅₈ H ₂₅₁ N ₃₉ O ₄₆ S	FW : 3465.6
Note : <i>Endogenous opioid peptide. Contains enkephalin sequence.</i>	
Reference : Li, CH; <i>et al. Biochem Biophys Res Commun</i> 1976 , 72, 1542-1547. Cox, BM; <i>et al. Proc Natl Acad Sci USA</i> 1976 , 73, 1821-1823. Bradbury, AF; <i>et al. Nature</i> 1976 , 260, 165-166.	
Catalog number : MPSP-026	
Name : [¹²⁵ I]β-Endorphin	
Sequence : H-YGGFMTSEKSTPLVTLFKNAIIKNAYKY[¹²⁵ I ₂]GE-OH	
Mol. Formula : C ₁₅₈ H ₂₄₉ N ₃₉ O ₄₆ S ₁₂₅ I ₂	FW : 3589.6
Note : <i>Radioactive ligand for MPSP-024</i>	
Reference : Deby-Dupont, G; <i>et al. C R Seances Soc Biol Fil</i> 1983 , 177, 259-68. Schweigerer, L; <i>et al. J Biol Chem</i> 1983 , 258, 12287-92.	
Catalog number : MPSP-025	
Name : [³ H ₂]β-Endorphin	
Sequence : H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-[³ H ₂]Tyr-Lys-Lys-Gly-Glu-OH	
Mol. Formula : C ₁₅₈ H ₂₄₉ N ₃₉ O ₄₆ S ₃ H ₂	FW : 3469.6
Note : <i>Radioactive ligand for MPSP-024</i>	
Reference : Li, CH; <i>et al. Proc Natl Acad Sci USA</i> 1980 , 77, 2303-4.	

Catalog number : MPSP-081**Name :** [³H₂]Leu-Enkephalin-acid**Sequence :** H-[³H₂]Tyr-Gly-Gly-Phe-Leu-OH**Mol. Formula :** C₂₈H₃₇N₅O₇**FW :** 559.3**Note :** *Radioactive ligand for MPSP-080.***Catalog number :** PEPT-036**Name :** FMRF amide *bis*(trifluoroacetate)**Sequence :** H-Phe-Met-Arg-Phe-NH₂**Mol. Formula :** C₃₃H₄₄F₆N₈O₈S**FW :** 826.82**Note :** *Molluscan cardioexcitatory neuropeptide.***Reference :** Price, DA; Greenberg, MJ *Science* **1997**, *197*, 670.
Tang, J; *et al. Proc Natl Acad Sci USA* **1984**, *81*, 5002.**Catalog number :** MPSP-008**Name :** ICI 174,864**Sequence :** N,N-Diallyl-Tyr-Aib-Aib-Phe-Leu-OH**Mol. Formula :** C₃₈H₅₃N₅O₇**FW :** 691.87**Note :** *Synthetic enkephalin antagonist selective for the δ receptor.***Reference :** Cotton, R; *et al. US Patent* 4,474,767 (1984).
Cotton, R; *et al. Eur J Pharmacol* **1984**, *97*, 331-2.
Dray, A; Nunan L *Peptides* **1984**, *5*, 1015-6.
Smith, CB; Bennett-Kelly L; Woods JH *Neuropeptides* **1984**, *5*, 161-4.**Catalog number :** PEPT-017**Name :** ICI 174864 hydrochloride**Sequence :** N,N-Diallyl-Tyr-Aib-Aib-Phe-Leu-OH**Mol. Formula :** C₃₈H₅₄ClN₅O₇**FW :** 728.34**Note :** *Synthetic enkephalin antagonist selective for the δ receptor.***Reference :** Cotten, R; *et al. US Patent* 4,474,767 (1984).
Cotten, R; *et al. Eur J Pharmacol* **1984**, *97*, 331.
Dray, D; Nunan, L *Peptides* **1984**, *5*, 1015.**Catalog number :** MPSP-078**Name :** Kaffiralin-1**Sequence :** H-D-Phe-D-Phe-D-Ile-D-Arg-NH₂**Mol. Formula :** C₃₀H₄₄N₈O₄**FW :** 580.7**Note :** *Kappa-selective agonist identified from a combinatorial library***Reference :** Dooley, CT; *et al. J Biol Chem* **1998**, *273*, 18848-56.

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Catalog number : MPSP-079	
Name : [³ H ₂]Kaffiralin-1	
Sequence : H-[³ H]D-Phe-[³ H]D-Phe-D-Ile-D-Arg-NH ₂	
Mol. Formula : C ₃₀ H ₄₂ N ₈ O ₄₃ H ₂	FW : 584.7
Note : <i>Radioactive ligand for MPSP-076</i>	
Reference : Dooley, CT; <i>et al. J Biol Chem</i> 1998 , 273, 18848–56.	
Catalog number : MPSP-076	
Name : Kaffiralin-2	
Sequence : H-D-Phe-D-Phe-D-Nle-D-Arg-NH ₂	
Mol. Formula : C ₃₀ H ₄₄ N ₈ O ₄	FW : 580.7
Note : <i>Kappa-selective agonist identified from a combinatorial library.</i>	
Reference : Dooley, CT; <i>et al. J Bio Chem</i> 1998 , 273, 18848–18856.	
Catalog number : MPSP-077	
Name : [³ H ₂]Kaffiralin-2	
Sequence : H-[³ H]D-Phe-[³ H]D-Phe-D-Nle-D-Arg-NH ₂	
Mol. Formula : C ₃₀ H ₄₂ N ₈ O ₄₃ H ₂	FW : 584.7
Note : <i>Radioactive ligand for MPSP-076.</i>	
Catalog number : PEPT-003	
Name : [Leu ⁵]Enkephalin trifluoroacetate	
Sequence : H-Tyr-Gly-Gly-Phe-Leu-OH	
Mol. Formula : C ₃₀ H ₃₈ F ₃ N ₅ O ₉	FW : 669.62
Note : <i>Endogenous enkephalin.</i>	
Reference : Hughes, J; <i>et al. Nature</i> 1975 , 258, 577. Jones, D <i>Tetrahedron Lett</i> 1977 , 2853. Vilkas, E; <i>et al. Int J Peptide Protein Res</i> 1980 , 15, 29.	
Catalog number : MPSP-080	
Name : Leu-Enkephalin-acid	
Sequence : H-Tyr-Gly-Gly-Phe-Leu-OH	
Mol. Formula : C ₂₈ H ₃₇ N ₅ O ₇	FW : 555.3
Note : <i>Endogenous enkephalin.</i>	
Reference : Hughes, J; <i>et al. Nature</i> 1975 , 258, 577. Jones, D <i>Tetrahedron Lett</i> 1977 , 2853. Vilkas, E; <i>et al. Int J Peptide Protein Res</i> 1980 , 15, 29.	

Catalog number : PEPT-007**Name :** [Met⁵]Enkephalinamide hydrochloride**Sequence :** H-Tyr-Gly-Gly-Phe-Met-NH₂**Mol. Formula :** C₂₇H₃₇ClN₆O₆S**FW :** 609.14**Note :** *Amide analog of [Met⁵]enkephalin.***Reference :** Puig, MM; *et al. Arch Int Pharmacol Ther* **1979**, 226, 69.
Berger, E; *et al. Pharmazie* **1979**, 34, 349.**Catalog number :** MPSP-064**Name :** Met-Enkephalin-acid**Sequence :** H-Tyr-Gly-Gly-Phe-Met-OH**Mol. Formula :** C₂₈H₃₇N₅O₇**FW :** 573.7**Note :** *Endogenous opioid peptide***Catalog number :** MPSP-029**Name :** Met-Enkephalin-amide**Sequence :** H-Tyr-Gly-Gly-Phe-Met-NH₂**Mol. Formula :** C₂₇H₃₆N₆O₆S**FW :** 572.8**Note :** *Amide analog of [Met⁵]enkephalin, endogenous opioid peptide.***Reference :** Hughes, J; *et al. Nature* **1975**, 258, 577-80.
Vavrek, RJ; *et al. Peptides* **1981**, 2, 303-8.**Catalog number :** PEPT-020**Name :** Methyl N,N-Diallyl-O-tert-butyltyrosyl-α-aminoisobutyryl-α-aminoisobutyrate**Sequence :** N,N-Dallyl-Tyr(Bu^t)-Aib-Aib-OMe**Mol. Formula :** C₂₈H₄₃N₃O₅**FW :** 501.67**Catalog number :** MPSP-042**Name :** Metkephamid**Sequence :** H-Tyr-Ala-Gly-N^α-Me-Phe-Met-NH₂**Mol. Formula :** C₂₉H₄₀N₆O₆S**FW :** 600.8**Note :** *Stable, systemically active analog of [Met⁵]enkephalin.***Reference :** RCFredrickson, *et al. Science*, 211, 603-605(1981)**Catalog number :** PEPT-009**Name :** Metkephamide hydrochloride**Sequence :** Tyr-D-Ala-Gly-N^α-Me-Phe-Met-NH₂**Mol. Formula :** C₂₉H₄₁ClN₆O₆S**FW :** 637.19**Note :** *Stable, systemically active analog of [Met⁵]enkephalin.***Reference :** Frederickson, RCA; *et al. Science* **1981**, 211, 603.

Catalog number : PEPT-004**Name :** N-(*tert*-Butyloxycarbonyl)tyrosylglycylglycylphenylalanylleucine methyl ester**Sequence :** Boc-Tyr-Gly-Gly-Phe-Leu-OMe**Mol. Formula :** C₃₄H₄₇N₅O₉**FW :** 669.77**Note :** [*Leu*⁵]enkephalin synthetic precursor.**Reference :** Vilkas, E; *et al. Int J Peptide Protein Res* **1980**, 15, 29.**Catalog number :** PEPT-006**Name :** N-(*tert*-Butyloxycarbonyl)tyrosylglycylglycylphenylalanylmethionine methyl ester**Sequence :** Boc-Tyr-Gly-Gly-Phe-Met-OMe**Mol. Formula :** C₃₃H₄₅N₅O₉S**FW :** 687.81**Note :** [*Met*⁵]enkephalin synthetic precursor.**Reference :** Bhotre, BJ; *et al. J Indian Chem Soc* **1978**, 55, 1128.**Catalog number :** PEPT-018**Name :** N,N-Diallyl-O-*tert*-butyltyrosyl- α -aminoisobutyryl- α -aminoisobutyrylphenylalanylleucine**Sequence :** N,N-Diallyl-Tyr(Bu^t)-Aib-Aib-Phe-Leu-OH**Mol. Formula :** C₄₂H₆₁N₅O₇**FW :** 747.98**Reference :** Cotton, R.; *et al. Eur J Pharmacol* **1984**, 97, 331-2.**Catalog number :** PEPT-019**Name :** N,N-Diallyl-O-*tert*-butyltyrosyl- α -aminoisobutyryl- α -aminoisobutyrylphenylalanylleucine methyl ester**Sequence :** N,N-Diallyl-Tyr(Bu^t)-Aib-Aib-Phe-Leu-OMe**Mol. Formula :** C₄₃H₆₃N₅O₇**FW :** 762.01**Note :** ICI 174864 synthetic intermediate.**Reference :** Flippen-Anderson, JL; *et al. Lett Pept Sci* **1994**, 1, 107.**Catalog number :** MPSP-059**Name :** [³H₂]Orphanin FQ; [³H₂]Nociceptin**Sequence :** H-Phe[³H]-Gly-Gly-Phe[³H]-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Leu-Ala-Asn-Gln-OH**Mol. Formula :** C₇₉H₁₂₇N₂₇O₂₂₃H₂**FW :** 1813.4**Note :** Radioactive ligand for MPSP-058**Reference :** Dooley, CT; Houghten RA *Life Sci* **1996**, 59, PL23-9.

Catalog number : MPSP-082**Name :** [³H₄]Tyr¹⁴Orphanin FQ**Sequence :** H-Phe[³H]-Gly-Gly-Phe[³H]-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Tyr[³H₂]-Ala-Asn-Gln-OH**Mol. Formula :** C₈₂H₁₂₃N₂₇O₂₃₃H₄**FW :** 1867.1**Note :** *Radioactive ligand for MPSP-058***Reference :** Dooley, CT; *et al. Life Science* **1996**, 59, PL23-PL29.**Catalog number :** MPSP-095**Name :** [³H₄]Orphanin FQ**Sequence :** H-[³H]Phe-Gly-Gly-[³H]Phe-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-[³H₂]Leu-Ala-Asn-Gln-OH**Mol. Formula :** C₇₉H₁₂₅N₂₇O₂₂₃H₄**FW :** 1817.4**Note :** *Radioactive ligand for MPSP-058.***Catalog number :** MPSP-083**Name :** (Tyr¹⁴)Orphanin FQ analog**Sequence :** H-Phe-Gly-Gly-Phe-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Tyr-Ala-Asn-Gln-OH**Mol. Formula :** C₈₂H₁₂₇N₂₇O₂₃**FW :** 1859.1**Note :** *Control ligand for MPSP-082.***Catalog number :** MPSP-058**Name :** Orphanin FQ; Nociceptin**Sequence :** H-Phe-Gly-Gly-Phe-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Leu-Ala-Asn-Gln-OH**Mol. Formula :** C₇₉H₁₂₉N₂₇O₂₂**FW :** 1809.4**Note :** *Endogenous ligand for orphan opioid like receptor (ORL)***Reference :** Reinscheid, RK; *et al. Science* **1995**, 270, 792-4.
Meunier, JC; *et al. Nature* **1995**, 377, 532-5.**Catalog number :** PEPT-023**Name :** PL017 trifluoroacetate**Sequence :** Tyr-Pro-N^α-Me-Phe-D-Pro-NH₂**Mol. Formula :** C₃₁H₃₈F₃N₅O₇**FW :** 649.67**Note :** *Synthetic morphiceptin agonist selective for the μ receptor.***Reference :** Chang, KJ; *et al. Science* **1981**, 212, 75.

7 – Peptides

Catalog number : MPSP-009	
Name : PLO17	
Sequence : H-Tyr-Pro-N ^α -Me-Phe-D-Pro-NH ₂	
Mol. Formula : C ₂₉ H ₃₇ N ₅ O ₅	FW : 535.65
Note : <i>Synthetic morphiceptin agonist selective for the μ receptor. Casomorphin analog.</i>	
Reference : Chang, KJ; <i>et al. J Pharmacol Exp Ther</i> 1983 , 227, 403-8.	
Catalog number : MPSP-010	
Name : [³ H ₂]PLO17	
Sequence : H-Tyr[³ H ₂]-Pro-N ^α -Me-Phe-D-Pro-NH ₂	
Mol. Formula : C ₂₉ H ₃₅ N ₅ O ₅ H ₂	FW : 539.6
Note : <i>Radioactive ligand for MPSP-009.</i>	
Reference : Hawkins, KN; <i>et al. Eur J Pharmacol</i> 1987 , 133, 351-2.	
Catalog number : MPSP-060	
Name : Dansyl-PQR-amide	
Sequence : Dansyl-Pro-Gln-Arg-NH ₂	
Mol. Formula : C ₂₈ H ₄₁ N ₉ O ₆ S	FW : 631.5
Note : <i>Fluorescent truncation analog of neuropeptide FF(NPFF) an anti-opiate peptide</i>	
Reference : Malin, DH; <i>et al. Life Sci</i> 1993 , 53, PL261-6.	
Catalog number : MPSP-062	
Name : Benzyl-PQR-amide	
Sequence : Benzyl-Pro-Gln-Arg-NH ₂	
Mol. Formula : C ₂₃ H ₃₆ N ₈ O ₄	FW : 488.6
Note : <i>Truncation analog of neuropeptide FF(NPFF) an anti-opiate peptide</i>	
Catalog number : PEPT-051	
Name : SS-20; Phenylalanyl-D-arginylphenylalanyllysineamide <i>tris</i> (trifluoroacetate)	
Sequence : Phe-D-Arg-Phe-Lys-NH ₂	
Mol. Formula : C ₃₆ H ₄₈ F ₉ N ₈ O ₉	FW : 938.9
Reference : Zhao, K; <i>et al. J Biol Chem</i> 2004 , 279, 34682-90.	

Catalog number : PEPT-050**Name :** SS-31; D-Arginyl-(2',6'-dimethyl)tyrosyllsphenylalaninamide *tris*(Trifluoroacetate)**Sequence :** D-Arg-Dmt-Lys-Phe-NH₂**Mol. Formula :** C₃₈H₅₂F₉N₉O₁₁**FW :** 981.354**Reference :** Zhao, K; *et al. J Biol Chem* 2004, 279, 34682-90.**Catalog number :** MPSP-068**Name :** TICP[Ψ]**Sequence :** H-Tyr-TicΨ[CH₂-NH]Cha-Phe-OH**Mol. Formula :** C₃₄H₃₈N₆O₅**FW :** 610.7**Note :** *Very stable potent δ antagonist***Reference :** Schiller, PW; *et al. J Signal Transduction Research* 1999, 19, 573-88.
Szatmari, I; *et al. Peptides* 1999, 20, 1079-83.**Catalog number :** MPSP-056**Name :** TIPP[Ψ]**Sequence :** H-Tyr-TicΨ[CH₂-NH]Phe-Phe-OH**Mol. Formula :** C₃₇H₄₀N₄O₅**FW :** 620.8**Note :** *Highly potent and stable δ receptor antagonist with extraordinary δ selectivity.***Reference :** Schiller, PW; *et al. J Med Chem* 1993, 36, 3182-7.
Visconti, LM; *et al. Neurosci Lett* 1994, 181, 47-9.**Catalog number :** PEPT-030**Name :** TIPP trifluoroacetate**Sequence :** H-Tyr-Tic-Phe-Phe-OH**Mol. Formula :** C₃₉H₃₉F₃N₄O₈**FW :** 748.76**Note :** *Highly potent and selective δ receptor antagonist.***Reference :** Schiller, PW; *et al. Proc Natl Acad Sci USA* 1992, 89, 11871.**Catalog number :** PEPT-032**Name :** TIPP[Ψ] acetate/trifluoroacetate**Sequence :** H-Tyr-TicΨ[CH₂NH]Phe-Phe-OH**Mol. Formula :** C₄₁H₄₅F₃N₄O₉**FW :** 794.82**Note :** *Highly potent and stable δ receptor antagonist with extraordinary δ selectivity.***Reference :** Schiller, PW; *et al. J Med Chem* 1993, 36, 3182.
Visconti, LM; *et al. Neurosci Lett* 1994, 181, 47.

Catalog number : PEPT-052**Name :** TIPP[Ψ] *bis*(trifluoroacetate)**Sequence :** Tyr-Tic-Ψ[CH₂NH]Phe-Phe-OH**Mol. Formula :** C₄₁H₄₂F₆N₄O₉**FW :** 848.80**Note :** *Selective delta opioid receptor antagonist.***Reference :** Schiller, PW; *et al. J Med Chem* **1993**, 36, 3182–7.**Catalog number :** MPSP-038**Name :** TIPP-Enkephalin (TIPP)**Sequence :** H-Tyr-Tic-Phe-Phe-OH**Mol. Formula :** C₃₇H₃₈N₄O₆**FW :** 634.8**Note :** *Highly potent and selective δ-opioid receptor antagonist***Reference :** Schiller, PW; *et al. Proc Natl Acad Sci USA* **1992**, 89, 11871–11875.
Flippen-Anderson, JL; *et al. Lett Pept Sci* **1994**, 1, 107.**Catalog number :** MPSP-039**Name :** [³H₂]Tipp-Enkephalin**Sequence :** H-Tyr[³H₂]-Tic-Phe-Phe-OH**Mol. Formula :** C₃₇H₃₆N₄O₆H₂**FW :** 638.8**Note :** *Radioactive ligand for MPSP-038***Reference :** Nevin, ST; *et al. Life Sci* **1993**, 53, PL57–62.**Catalog number :** PEPT-031**Name :** D-TIPP-NH₂ trifluoroacetate/acetate**Sequence :** Tyr-D-Tic-Phe-Phe-NH₂**Mol. Formula :** C₃₉H₄₀₋₉F₂₋₁N₅O₇**FW :** 731.58**Note :** *Potent and highly selective μ receptor agonist.***Reference :** Schiller, PW; *et al. Proc Natl Acad Sci USA* **1992**, 89, 11871.
Flippen-Anderson, JL; *et al. J Peptide Res* **1997**, 49, 384.**Catalog number :** MPSP-115**Name :** Orexin A (human, bovine, rat, mouse), Hypocretin-1**Sequence :** pGlu-Pro-Leu-Pro-Asp-Cys-Cys-Arg-Gln-Lys-Thr-Cys-Ser-Cys-Arg-Leu-Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH₂ (Disulfide bridges Cys6-Cys12 and Cys7-Cys14)**Mol. Formula :** C₁₅₂H₂₄₃N₄₇O₄₄S₄**FW :** 3561.2**Note :** *Hypothalamic neuropeptide that regulates feeding behavior.***Reference :** M.W. Schwartz, *Nat. Med.* 4, 385 (1998); T. Sakurai *et al.*, *Cell* 92, 573 (1998); M.R. Jain *et al.*, *Regul. Peptides* 87, 19 (2000); E. Goncz *et al.*, *Endocrinology* 149, 1618 (2008)

Catalog number : MPSP-116**Name :** Orexin B (human), Hypocretin-2**Sequence :** H-Arg-Ser-Gly-Pro-Pro-Gly-Leu-Gln-Gly-Arg-Leu-Gln-Arg-Leu-Leu-Gln-Ala-Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Met-NH₂**Mol. Formula :** C₁₂₃H₂₁₂N₄₄O₃₅S**FW :** 2899.4**Note :** *Hypothalamic neuropeptide that regulates feeding behavior.***Reference :** M.W. Schwartz, Nat. Med. 4, 385 (1998); T. Sakurai et al., Cell 92, 573 (1998); M.R. Jain et al., Regul. Peptides 87, 19 (2000)



Sedatives: Barbiturate Class

Catalog number : 2270-012

new

CASRN : 57-33-0

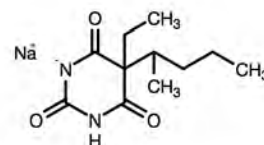
Name : Sodium pentobarbital

Mol. formula : $C_{11}H_{17}N_2NaO_3$

FW : 249.26

DEA schedule : 2

References : ChemSpider ID 5762.



Catalog number : 2100-001

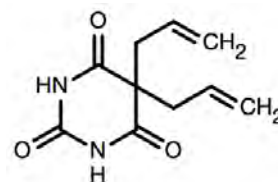
CASRN : 52-43-7

Name : 5,5-Diallylbarbituric acid; Allobarbital

Mol. formula : $C_{10}H_{12}N_2O_3$

FW : 208.21

DEA schedule : 2

Notes : *Anti-convulsant*References : *Merck Index*, 14th ed., Monograph 263.

Catalog number : 2125-001

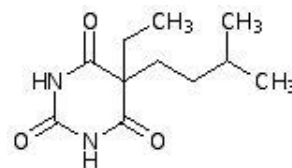
CASRN : 57-43-2

Name : (±)-Amobarbital

Mol. formula : $C_{11}H_{18}N_2O_3$

FW : 226.27

DEA schedule : 2

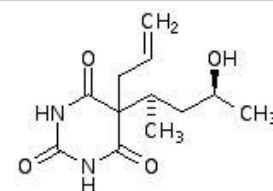
Notes : *Hypnotic; sedative (but not anti-anxiety)*References : *Merck Index*, 14th ed., Monograph 570.

Catalog number : 2315-010

Name : (1'*RS*,3'*SR*)-5-Allyl-5-(3'-hydroxy-1'-methylbutyl)barbituric acidMol. formula : $C_{12}H_{18}N_2O_4$

FW : 254.28

DEA schedule : 2

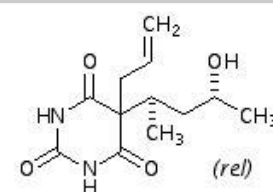
Notes : *Secobarbital metabolite*

Catalog number : 2315-011

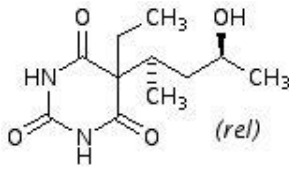
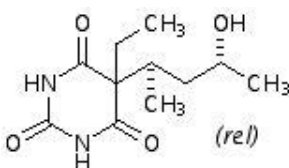
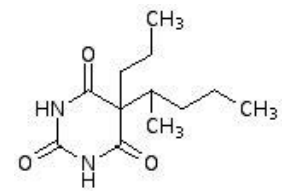
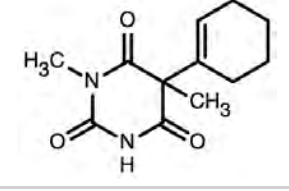
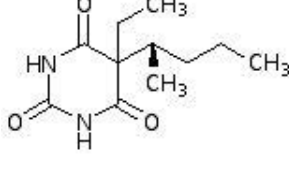
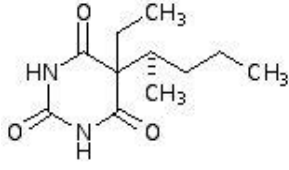
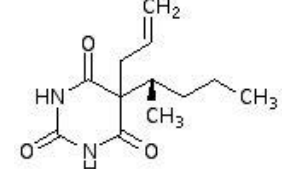
Name : (1'*RS*,3'*RS*)-5-Allyl-5-(3'-hydroxy-1'-methylbutyl)barbituric acidMol. formula : $C_{12}H_{18}N_2O_4$

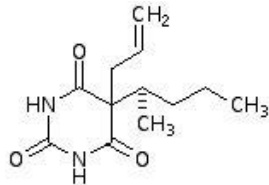
FW : 254.28

DEA schedule : 2

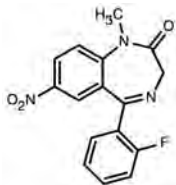
Notes : *Secobarbital metabolite*References : Carroll, FI; Mitchell, GN *J Med Chem* 1975, 18, 37-41.

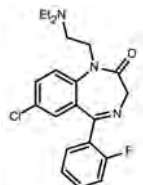
8 – Sedatives and Hypnotics

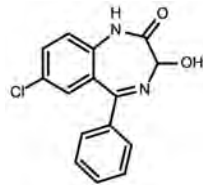
Catalog number : 2270-010				
Name : (1' <i>RS</i> ,3' <i>SR</i>)-5-Ethyl-5-(3'-hydroxy-1'-methylbutyl)barbituric acid				
Mol. formula : C ₁₁ H ₁₈ N ₂ O ₄	FW : 242.27	DEA schedule : 2		
Notes : <i>Pentobarbital metabolite</i>				
References : Carroll, FI; Mitchell, GN <i>J Med Chem</i> 1975, 18, 37-41.				
Catalog number : 2270-011				
Name : (1' <i>RS</i> ,3' <i>RS</i>)-5-Ethyl-5-(3'-hydroxy-1'-methylbutyl)barbituric acid				
Mol. formula : C ₁₁ H ₁₈ N ₂ O ₄	FW : 242.27	DEA schedule : 2		
Notes : <i>Pentobarbital metabolite</i>				
References : Carroll, FI; Mitchell, GN <i>J Med Chem</i> 1975, 18, 37-41.				
Catalog number : 2100-010				
Name : (±)-5-Propyl-5-(1'-methylbutyl)barbituric acid				
Mol. formula : C ₁₂ H ₂₀ N ₂ O ₃	FW : 240.30	DEA schedule : 2		
Notes : <i>Sedative</i>				
Catalog number : 2100-006			CASRN : 56-29-1	
Name : (±)-Hexobarbital				
Mol. formula : C ₁₂ H ₁₆ N ₂ O ₃	FW : 236.26	DEA schedule : 2		
Notes : <i>Hypnotic; sedative; GABA moderator</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 4704.				
Catalog number : 2270-002				CASRN : 21642-82-0
Name : (-)-(S)-Pentobarbital				
Mol. formula : C ₁₁ H ₁₈ N ₂ O ₃	FW : 226.27	DEA schedule : 2		
Notes : <i>Hypnotic; sedative (but not anti-anxiety)</i>				
Catalog number : 2270-003				CASRN : 21642-83-1
Name : (+)-(R)-Pentobarbital				
Mol. formula : C ₁₁ H ₁₈ N ₂ O ₃	FW : 226.27	DEA schedule : 2		
Notes : <i>Hypnotic; sedative (but not anti-anxiety)</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 7130.				
Catalog number : 2315-001			CASRN : 20224-45-7	
Name : (-)-(S)-Secobarbital				
Mol. formula : C ₁₂ H ₁₈ N ₂ O ₃	FW : 238.27	DEA schedule : 2		
Notes : <i>Sedative (but not anti-anxiety)</i>				

Catalog number : 2315-002			CASRN : 22328-94-5
Name : (+)-(R)-Secobarbital			
Mol. formula :	$C_{12}H_{18}N_2O_3$	FW : 238.27	DEA schedule : 2
Notes : Hypnotic; sedative (but not anti-anxiety)			
References : Merck Index, 14th ed., Monograph 8420. Carroll, FI; Mitchell, GN <i>J Med Chem</i> 1975, 18, 37-41.			

Sedatives: Benzodiazepine Class

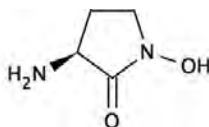
Catalog number : 2763-001			CASRN : 1622-62-4
Name : Flunitrazepam; Rohypnol			
Mol. formula :	$C_{16}H_{12}FN_3O_3$	FW : 313.28	DEA schedule : 4
Notes : Hypnotic.			
References : Mattila, MA; Larni, HM <i>Drugs</i> 1980, 20, 353-74.			

Catalog number : 2767-001			CASRN : 1172-18-5
Name : Flurazepam dihydrochloride			
Mol. formula :	$C_{21}H_{23}ClFN_3O$	FW : 460.80	DEA schedule : 4
References : Merck Index, 14th ed., Monograph 4198.			

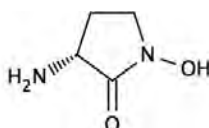
Catalog number : 2835-001			CASRN : 604-75-1
Name : (±)-Oxazepam			
Mol. formula :	$C_{15}H_{11}ClN_2O_2$	FW : 286.71	DEA schedule : 4
Notes : Anti-anxiety, anti-insomnia			
References : Merck Index, 14th ed., Monograph 6926.			

Sedatives: Butyrolactam Class

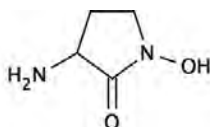
Catalog number : NOCD-071		
Name : (-)-(S)-3-Amino-1-hydroxypyrrolidin-2-one; (-)-(S)-HA-966		
Mol. formula : C ₄ H ₈ N ₂ O ₂	FW : 116.12	DEA schedule : 0
Notes : <i>Potent γ-butyrolactone-like sedative</i>		
References : Singh, L; <i>et al. Proc Natl Acad Sci USA</i> 1990, 87, 347-51.		

N[C@H]1CC(=O)N(O)C1

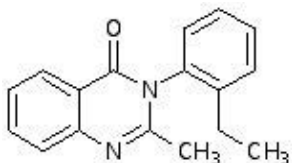
Catalog number : NOCD-072		
Name : (+)-((R)-3-Amino-1-hydroxypyrrolidin-2-one; (+)-(R)-HA-966		
Mol. formula : C ₄ H ₈ N ₂ O ₂	FW : 116.12	DEA schedule : 0
Notes : Glycine/NMDA receptor antagonist		
References : Singh, L; et al. Proc Natl Acad Sci USA 1990, 87, 347-51.		



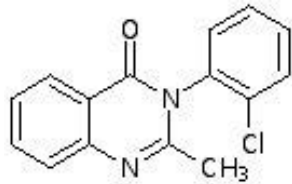
8 – Sedatives and Hypnotics

Catalog number : NOCD-070		CASRN : 1003-51-6
Name : (±)-3-Amino-1-hydroxypyrrolidin-2-one; (±)-HA-966		
Mol. formula : C ₄ H ₈ N ₂ O ₂	FW : 116.12 DEA schedule : 0	
Notes : <i>Glycine/NMDA receptor antagonist</i>		
References : Leeson, PD; Iversen, LL <i>J Med Chem</i> 1994 , 37, 4053-4067.		

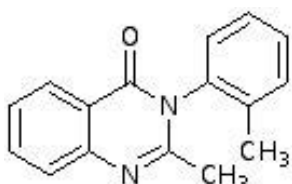
Sedatives: Methaqualone Class

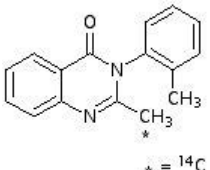
Catalog number : 2565-021		CASRN : 7432-25-9		
Name : Etaqualone hydrochloride				
Mol. formula : C ₁₇ H ₁₇ ClN ₂ O	FW : 300.79			DEA schedule : 0
Notes : <i>CNS depressant; sedative; hypnotic</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 3714.				

Catalog number : 2572-001		CASRN : 340-57-8	
Name : Mecloqualone			
Mol. formula : C ₁₅ H ₁₁ ClN ₂ O		FW : 270.74	DEA schedule : 1
Notes : <i>CNS depressant; sedative; hypnotic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 5781.			

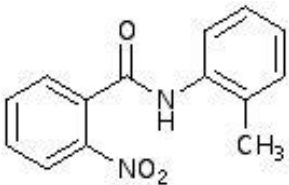
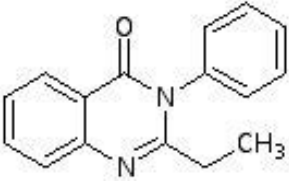
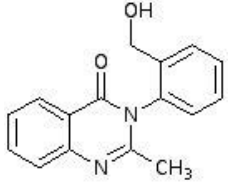
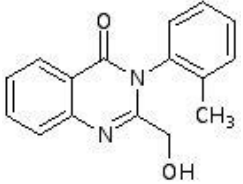
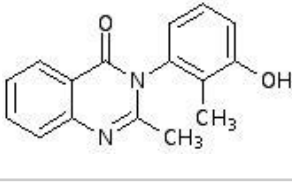
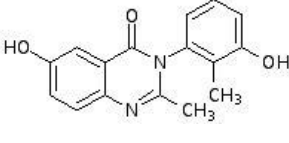
Cc1nc2ccccc2c(=O)n1C3=CC=CC=C3Cl

Catalog number : 2565-003			CASRN : 72-44-6	
Name : Methaqualone				
Mol. formula : C ₁₆ H ₁₄ N ₂ O		FW : 250.30	DEA schedule : 1	
Notes : <i>CNS depressant; sedative; hypnotic</i>				
References : <i>Merck Index</i> , 14th ed., Monograph 5960.				

Cc1ccccc1N2C(=O)c3ccccc3N=C2C

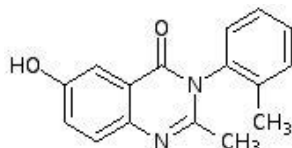
Catalog number : 2565-002	CASRN : 72-44-6
Name : [2- ¹⁴ C]Methaqualone	 * = ¹⁴C
Mol. formula : C ₁₆ H ₁₄ N ₂ O	
FW : 251.30 DEA schedule : 1	
Notes : <i>Sedative; hypnotic (carbon-labeled).</i>	

Catalog number : 2565-001	CASRN : 72-44-6
Name : [² H ₄]Methaqualone	 (Site of isotopic substitution is unknown.)
Mol. formula : C ₁₆ H ₁₄ N ₂ O	
FW : 254.32 DEA schedule : 1	

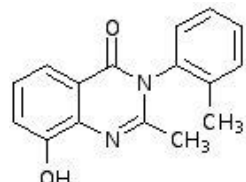
Catalog number : 2565-012			CASRN : 2385-25-3
Name : 2-Nitro- <i>o</i> -benzotoluidide			
Mol. formula :	$C_{14}H_{12}N_2O_3$	FW : 256.26	DEA schedule : 0
Notes : <i>Methaqualone urinary metabolite</i>			
References : Murata, T; Yamamoto, I <i>Chem Pharm Bull</i> (Tokyo) 1970 , 18, 133-7.			
Catalog number : 2565-020			CASRN : 5260-41-3
Name : 2-Ethyl-3-phenyl-4(3H)-quinazolinone			
Mol. formula :	$C_{16}H_{14}N_2O$	FW : 250.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			
Catalog number : 2565-015			CASRN : 5060-50-4
Name : 2'-Hydroxymethaqualone			
Mol. formula :	$C_{16}H_{14}N_2O_2$	FW : 266.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			
Catalog number : 2565-019			CASRN : 5060-49-1
Name : 2-Hydroxymethaqualone			
Mol. formula :	$C_{16}H_{14}N_2O_2$	FW : 266.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			
Catalog number : 2565-014			CASRN : 5060-63-9
Name : 3'-Hydroxymethaqualone			
Mol. formula :	$C_{16}H_{14}N_2O_2$	FW : 266.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			
Catalog number : 2565-017			CASRN : 29541-82-0
Name : 6, 3'-Dihydroxymethaqualone			
Mol. formula :	$C_{10}H_{14}N_2O_3$	FW : 282.29	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			
Catalog number : 2565-013			CASRN : 5060-52-6
Name : 4'-Hydroxymethaqualone			
Mol. formula :	$C_{16}H_{14}N_2O_2$	FW : 266.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979 , 16, 25.			

8 – Sedatives and Hypnotics

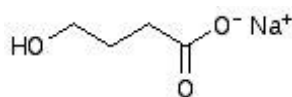
Catalog number : 2565-016			CASRN : 5060-51-5
Name : 6-Hydroxymethaqualone			
Mol. formula : C ₁₆ H ₁₄ N ₂ O ₂		FW : 266.30	DEA schedule : 0
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979, 16, 25.			

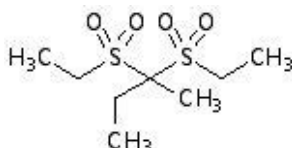


The chemical structure of 6-Hydroxymethaqualone is shown. It consists of a benzene ring fused to a pyrimidine ring. The pyrimidine ring has a carbonyl group at position 2, a methyl group at position 4, and a methyl group at position 5. The benzene ring has a hydroxyl group at position 6.

Catalog number : 2565-018			CASRN : 5060-53-7
Name : 8-Hydroxymethaqualone			
Mol. formula : C ₁₆ H ₁₄ N ₂ O ₂	FW : 266.30	DEA schedule : 0	
References : Brine, GA; Coleman, ML; Carroll, FI <i>J Heterocyclic Chem</i> 1979, 16, 25.			

Sedatives: Miscellaneous

Catalog number : 2010-001			CASRN : 502-85-2
Name : γ -Hydroxybutyric acid, sodium salt; GHB			
Mol. formula : C ₄ H ₇ O ₃ Na	FW : 126.09	DEA schedule : 1	
Notes : <i>CNS depressant; analgesic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 4815.			

Catalog number : 2605-001			CASRN : 76-20-0
Name : Sulfonethylmethane; Ethylsulfonal			
Mol. formula : C ₈ H ₁₈ O ₄ S ₄	FW : 242.36	DEA schedule : 3	
Notes : <i>Hypnotic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 8958.			

Stimulants: Amirex Class

Catalog number : 1590-005

CASRN : 133633-24-6

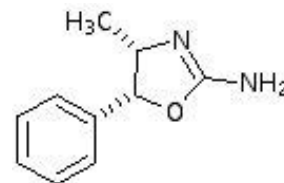
Name : (-)-*cis*-(4*S*,5*R*)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (-)-*cis*-4-Methylaminorex HClMol. formula : C₁₀H₁₃ClN₂O

FW : 212.68

DEA schedule : 1

Notes : CNS stimulant

References : Merck Index, 14th ed., Monograph 6018.



Catalog number : 1590-006

CASRN : 933777-34-5

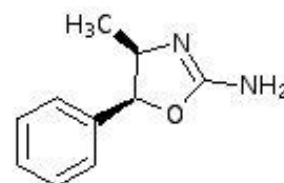
Name : (+)-*cis*-(4*R*,5*S*)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (+)-*cis*-4-Methylaminorex HClMol. formula : C₁₀H₁₃ClN₂O

FW : 212.68

DEA schedule : 1

Notes : CNS stimulant

References : Merck Index, 14th ed., Monograph 6018.



Catalog number : 1590-001

CASRN : 3568-94-3

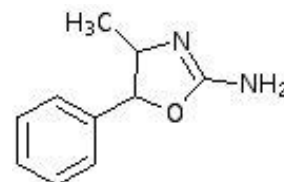
Name : (±)-*cis*-(4*RS*,5*SR*)-2-Amino-4-methyl-5-phenyl-2-oxazoline; (±)-*cis*-4-MethylaminorexMol. formula : C₁₀H₁₂N₂O

FW : 176.22

DEA schedule : 1

Notes : CNS stimulant

References : Merck Index, 14th ed., Monograph 6018.



Catalog number : 1590-002

CASRN : 3568-94-3

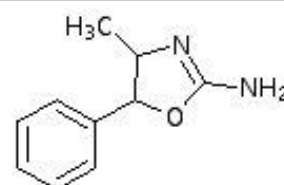
Name : (±)-*cis*-(4*RS*,5*SR*)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (±)-*cis*-4-Methylaminorex HClMol. formula : C₁₀H₁₃ClN₂O

FW : 212.68

DEA schedule : 1

Notes : CNS stimulant

References : Merck Index, 14th ed., Monograph 6018.



Catalog number : 1590-003

CASRN : 933777-34-5

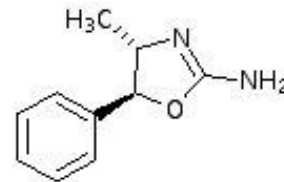
Name : (-)-*trans*-(4*S*,5*S*)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (-)-*trans*-4-Methylaminorex HClMol. formula : C₁₀H₁₃ClN₂O

FW : 212.68

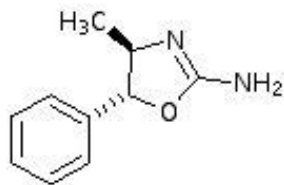
DEA schedule : 1

Notes : CNS stimulant

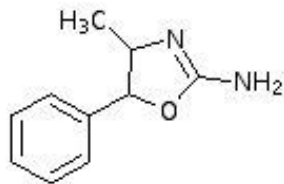
References : Merck Index, 14th ed., Monograph 6018.



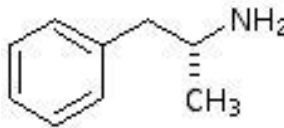
9 – Stimulants

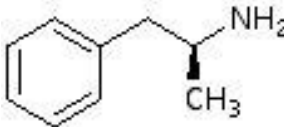
Catalog number : 1590-004		CASRN : 933777-37-8	
Name : (+)- <i>trans</i> -(4 <i>R</i> ,5 <i>R</i>)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (+)- <i>trans</i> -4-Methylaminorex HCl			
Mol. formula : C ₁₀ H ₁₃ ClN ₂ O	FW : 212.68		DEA schedule : 1
Notes : <i>CNS stimulant</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 6018.			

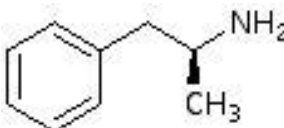
Catalog number : 1590-007		CASRN : 2077-59-0
Name : (±)- <i>trans</i> -(4 <i>RS</i> ,5 <i>RS</i>)-2-Amino-4-methyl-5-phenyl-2-oxazoline hydrochloride; (±)- <i>trans</i> -4-Methylaminorex HCl		
Mol. formula : C ₁₀ H ₁₃ ClN ₂ O	FW : 212.68	DEA schedule : 1
Notes : <i>CNS stimulant</i>		
References : <i>Merck Index</i> , 14th ed., Monograph 6018.		

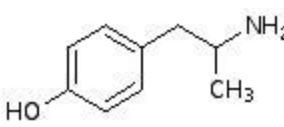


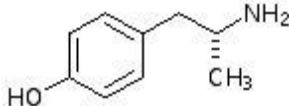
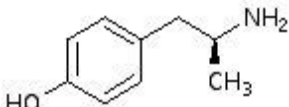
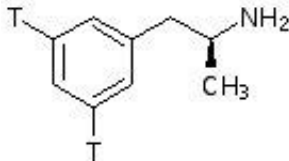
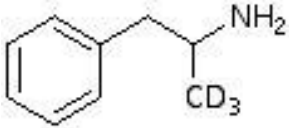
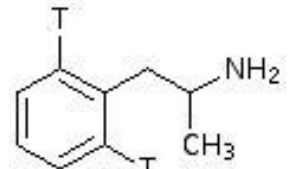
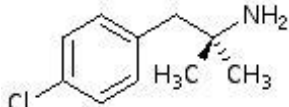
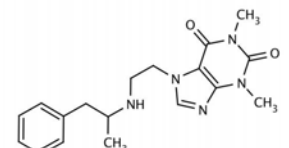
Stimulants: Amphetamine Class

Catalog number : 1100-003			CASRN : 51-62-7
Name : (-)-Amphetamine sulfate; Levamphetamine			
Mol. formula : C ₁₈ H ₂₈ N ₂ O ₄ S	FW : 368.50	DEA schedule : 2	
References : <i>Merck Index</i> , 14th ed., Monograph 582.			

Catalog number : 1100-006			CASRN : 60-13-9
Name : (+)-Amphetamine sulfate; Dextroamphetamine sulfate			
Mol. formula : C ₁₈ H ₂₈ N ₂ O ₄ S	FW : 368.50	DEA schedule : 2	
Notes : <i>CNS stimulant; sympathomimetic; anorexic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 2954.			

Catalog number : 1100-007			CASRN : 1462-73-3
Name : (+)-Amphetamine hydrochloride; Dextroamphetamine hydrochloride			
Mol. formula : C ₉ H ₁₄ ClN	FW : 171.70	DEA schedule : 2	
Notes : <i>CNS stimulant</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 2954.			

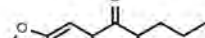
Catalog number : 1100-010			CASRN : 306-21-8
Name : (±)-4-Hydroxyamphetamine hydrobromide			
Mol. formula : C ₉ H ₁₄ BrNO	FW : 232.12	DEA schedule : 2	
Notes : <i>CNS stimulant; sympathomimetic; mydriatic</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 4810.			

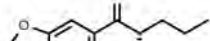
Catalog number : 1100-011			CASRN : 41509-97-1
Name : (-)-4-Hydroxyamphetamine hydrobromide			
Mol. formula : C ₉ H ₁₄ BrNO			
FW : 232.12			
DEA schedule : 2			
Notes : CNS stimulant; sympathomimetic; mydriatic			
References : Merck Index, 14th ed., Monograph 4810.			
Catalog number : 1100-012			CASRN : 1693-66-9
Name : (+)-4-Hydroxyamphetamine hydrobromide			
Mol. formula : C ₉ H ₁₄ BrNO			
FW : 232.12			
DEA schedule : 2			
Notes : CNS stimulant; sympathomimetic; mydriatic			
References : Merck Index, 14th ed., Monograph 4810.			
Catalog number : 1100-009			
Name : (+)-(S)-[3,5- ³ H(n)]Amphetamine			
Mol. formula : C ₉ H ₁₃ N			
FW : 139.22			
DEA schedule : 2			
Notes : CNS stimulant (tritium-labeled).			
Catalog number : 1100-004			CASRN : 38875-35-3
Name : (±)-[1,1,1- ² H ₃]Amphetamine sulfate			
Mol. formula : C ₉ H ₁₃ N			
FW : 374.53			
DEA schedule : 2			
References : Cho, AK; et al. ., Anal Chem 1973, 45, 570-4. Valtier, S; Cody, JT J Anal Toxicol 1995, 19, 375-80.			
Catalog number : 1100-005			
Name : (±)-[2',6'- ³ H ₂]Amphetamine; 2,6-Tritioamphetamine			
Mol. formula : C ₉ H ₁₃ N			
FW : 135.21			
DEA schedule : 2			
Catalog number : 1645-001			CASRN : 461-78-9
Name : Chlorphentermine; 4-Chloro-α,α-dimethyl-β-phenethylamine			
Mol. formula : C ₁₀ H ₁₄ ClN			
FW : 183.68			
DEA schedule : 3			
Notes : Anorectic			
References : Merck Index, 14th ed., Monograph 2182.			
Catalog number : 1503-001			CASRN : 1892-80-4
Name : Fenethylline hydrochloride; Captagon HCl			
Mol. formula : C ₁₈ H ₂₄ N ₅ O ₂ Cl			
FW : 341419			
DEA schedule : 2			
Notes : CNS stimulant			
References : Merck Index, 14th ed., Monograph 3972.			

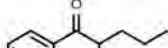
Stimulants: Benzhydrol Class

Catalog number : NOCD-040		CASRN : 67469-57-2
Name : GBR 12783		
Mol. formula : C ₂₈ H ₃₄ Cl ₂ N ₂ O	FW : 485.48 DEA schedule : 0	
Notes : <i>Dopamine uptake inhibitor.</i>		
References : Bonnet, JJ; Costentin JEur J Pharmacol 1986 , 121, 199-209. Chagraoui, A; <i>et al. Neurosci Lett</i> 1987 , 78, 175-9.		

Stimulants: Cathinone Class

Catalog number : 7535-002		new		CASRN : 1669434-93-8	
Name : (R)-MDPV hydrochloride					
Mol. formula : C ₁₆ H ₂₁ NO ₃		FW : 275.35		DEA schedule : 1	
					

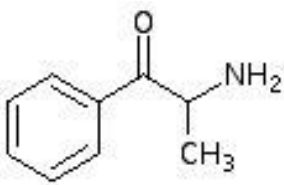
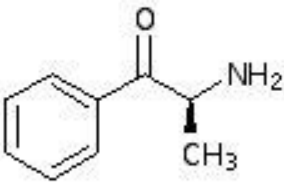
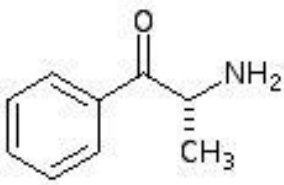
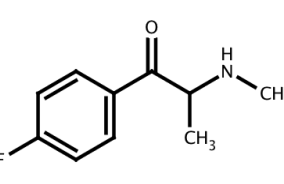
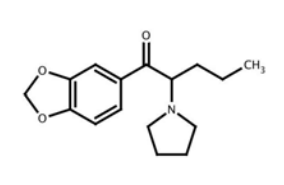
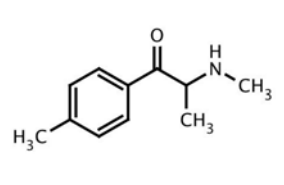
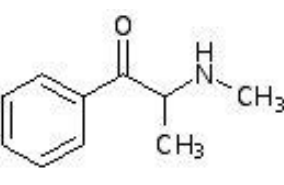
Catalog number : 7535-003		new	CASRN : 1669434-94-9
Name : (S)-MDPV hydrochloride			
Mol. formula : C ₁₆ H ₂₁ NO ₃		FW : 275.35	DEA schedule : 1
			

Catalog number : 7545-001		new	CASRN : 5485-65-4
Name : α -PVP hydrochloride			
Mol. formula : C ₁₅ H ₂₁ NO	FW : 231.34		
References : Meltzer, PC; <i>et al.</i> , <i>J Med Chem</i> 2006 , 49, 1420-32.			

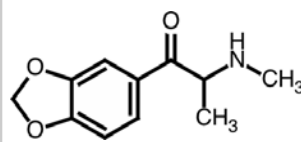
Catalog number : 1610-002		CASRN : 31677-93-7
Name : (±)-Bupropion hydrochloride		
Mol. formula : C ₁₃ H ₁₉ Cl ₂ NO	FW : 276.21	DEA schedule : 0
References : Martin, P; Massol, J; Colin, JN; Lacomblez, L; Puech, AJ <i>Pharmacopsychiatry</i> 1990 , 23, 87-94.		

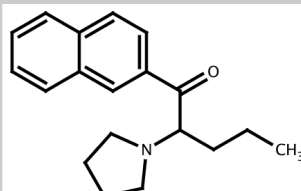
Catalog number : 7541-001		CASRN : 802575-11-7
Name : Butylone; bk-MBDB		
Mol. formula : C ₁₂ H ₁₅ NO ₃	FW : 221.26	DEA schedule : 1
References : Gatch, MB; Taylor CM; Forster MJ, <i>Behav Pharmacol</i> 2013 , 24, 437-47.		

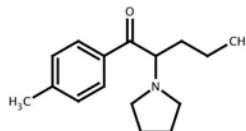


Catalog number : 1235-010			CASRN : 76333-53-4
Name : (±)-Cathinone hydrochloride			
Mol. formula :	$C_9H_{12}ClNO$	FW : 185.66	DEA schedule : 1
Notes : CNS stimulant; psychotropic drug			
References : Kalix, P <i>Pharmacol Toxicol</i> 1992 , 70, 77-86. Merck Index, 14th ed., Monograph 1906.			
Catalog number : 1235-011			CASRN : 71031-15-7
Name : (-)-(S)-Cathinone hydrochloride			
Mol. formula :	$C_9H_{12}ClNO$	FW : 185.66	DEA schedule : 1
Notes : CNS stimulant; psychotropic drug			
References : Merck Index, 14th ed., Monograph 1906.			
Catalog number : 1235-012			CASRN : 80096-54-4
Name : (+)-(R)-Cathinone hydrochloride			
Mol. formula :	$C_9H_{12}ClNO$	FW : 185.66	DEA schedule : 1
Notes : CNS stimulant; psychotropic drug			
Catalog number : 1237-003			CASRN : 7589-35-7
Name : 4-Fluoromethcathinone; 4-FMC; Flephedrone			
Mol. formula :	$C_{10}H_{12}FNO$	FW : 181.21	DEA schedule : 1
References : Archer RP, <i>Forensic Sci Int</i> , 2009 , 185(1-3), 10-20.			
Catalog number : 7535-001			CASRN : 24622-62-6
Name : (±)-Methylenedioxypropylvalerone HCl; MDPV HCl			
Mol. formula :	$C_{16}H_{22}ClNO_3$	FW : 311.81	DEA schedule : 1
Notes : Stimulant; norepinephrine/dopamine reuptake inhibitor.			
References : Coppola, M; Mondola R, <i>Toxicol Lett</i> 2012 , 208, 12-5.			
Catalog number : 1248-001			CASRN : 1189726-22-4
Name : (±)-Mephedrone hydrochloride			
Mol. formula :	$C_{11}H_{16}ClNO$	FW : 213.70	DEA schedule : 0
References : Wood, DM; <i>et al. J Med Toxicol</i> 2010 , 10.1007/s13181-010-0018-5.			
Catalog number : 1237-001			CASRN : 5650-44-2
Name : (±)-N-Methcathinone hydrochloride			
Mol. formula :	$C_{10}H_{14}ClNO$	FW : 199.67	DEA schedule : 1
Notes : CNS stimulant; psychotropic drug			

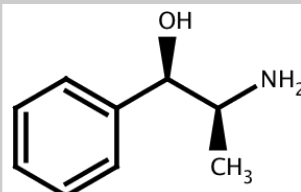
9 – Stimulants

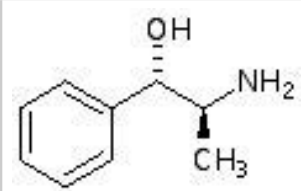
Catalog number : 7540-001			CASRN : 186028-79-5
Name : Methylone HCl			
Mol. formula : C ₁₁ H ₁₃ NO ₃	FW : 207.23	DEA schedule : 1	
References : Cozzi NV. <i>Neuropsychopharmacology</i> , 2012 , 37(5), 1192-1203. Niesink RJ. <i>Addict Biol</i> , 2005 , 10(4), 321-323.			

Catalog number : NOCD-126			CASRN : 850352-11-3
Name : Naphyrone; Naphthylpyrovalerone			
Mol. formula : C ₁₉ H ₂₃ NO	FW : 281.39	DEA schedule : 1	
References : Meltzer PC, Butler D, Deschamps JR, Madras BK. <i>J Med Chem</i> , 2006, 49(4), 1420-1432.			

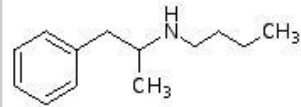
Catalog number : 1485-001			CASRN : 1147-62-2
Name : (±)-Pyrovalerone HCl			
Mol. formula : C ₁₆ H ₂₄ ClNO	FW : 281.82	DEA schedule : 5	
References : Stille, G; <i>et al.</i> , <i>Arzneimittelforschung</i> 1963 , 13, 871-7. Michaelis, W; Russel JH; Schindler O, <i>J Med Chem</i> 1970 , 13, 497-503.			

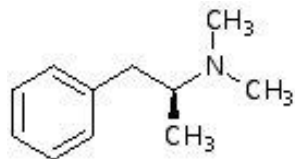
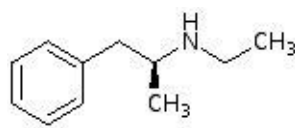
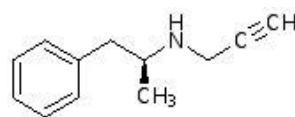
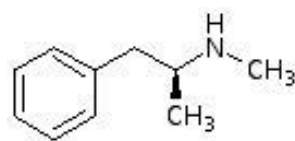
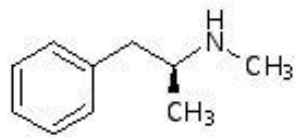
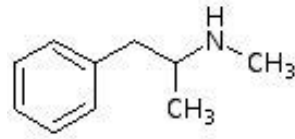
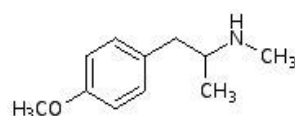
Stimulants: Ephedrine Class

Catalog number : 1230-016			CASRN : 53643-20-2
Name : (-)-Norephedrine hydrochloride			
Mol. formula : C ₉ H ₁₄ ClNO	FW : 187.68	DEA schedule : 4	
Notes : Nasal decongestant; appetite suppressant			
References : Merck Index, 14th ed., Monograph 7307.			

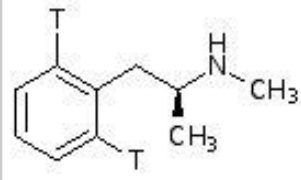
Catalog number : 1230-017			CASRN : 36393-56-3
Name : (+)-Norpseudoephedrine hydrochloride			
Mol. formula : C ₉ H ₁₄ ClNO	FW : 187.68	DEA schedule : 4	
Notes : <i>Nasal decongestant; appetite suppressant</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 6714.			

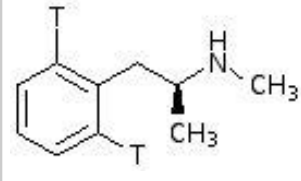
Stimulants: Methamphetamine Class

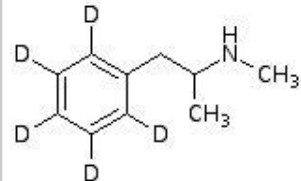
Catalog number : 1100-008			CASRN : 51799-33-8
Name : (±)-N-(<i>n</i> -Butyl)amphetamine hydrochloride			
Mol. formula : C ₁₃ H ₂₂ ClN	FW : 227.78	DEA schedule : 2	
Notes : <i>CNS stimulant</i>			
References : Woolverton WL; Shybut, G; Johanson, CE <i>Pharmacol Biochem Behav</i> 1980 , 13, 869-76.			

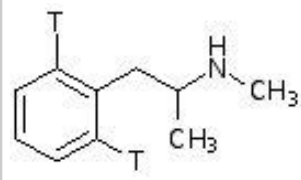
Catalog number : 1480-001			CASRN : 17279-39-9
Name : (+)-N,N-Dimethylamphetamine hydrochloride			
Mol. formula : C ₁₁ H ₁₈ ClN	FW : 199.72	DEA schedule : 1	
Notes : CNS stimulant			
References : Ricaurte, GA; et al. <i>Brain Res</i> 1989 , 490, 301-6. Katz, JL; et al. <i>Psychopharmacology (Berl)</i> 1992 , 107, 315-8.			
Catalog number : 1475-001			CASRN : 33817-11-7
Name : (+)-N-Ethylamphetamine hydrochloride			
Mol. formula : C ₁₁ H ₁₈ ClN	FW : 199.71	DEA schedule : 1	
Notes : CNS stimulant			
References : <i>Merck Index</i> , 14th ed., Monograph 3763.			
Catalog number : MEDD-007			
Name : (-)-(S)-Desmethylelegiline hydrochloride			
Mol. formula : C ₁₂ H ₁₆ ClN	FW : 209.72	DEA schedule : 0	
References : Mytilineou C; Radcliffe PM; Olanow CW <i>J Neurochem</i> 1997 , 68, 434-6.			
Catalog number : 1105-001			CASRN : 51-57-0
Name : (+)-(-)-S-Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN	FW : 185.70	DEA schedule : 2	
Notes : CNS stimulant; sympathomimetic; anorexic			
References : <i>Merck Index</i> , 14th ed., Monograph 5948.			
Catalog number : 1105-003			CASRN : 537-46-2
Name : (+)-Methamphetamine base			
Mol. formula : C ₁₀ H ₁₅ N	FW : 149.24	DEA schedule : 2	
Notes : CNS stimulant			
References : <i>Merck Index</i> , 14th ed., Monograph 5948.			
Catalog number : 1105-005			CASRN : 300-42-5
Name : (±)-Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN	FW : 185.69	DEA schedule : 2	
Notes : CNS stimulant			
References : <i>Merck Index</i> , 14th ed., Monograph 5948.			
Catalog number : 1105-014			CASRN : 22331-70-0
Name : (±)-4-Methoxymethamphetamine hydrochloride; PMMA			
Mol. formula : C ₁₁ H ₁₈ ClNO	FW : 215.75	DEA schedule : 0	
References : Glennon, RA; Ismaiel, AE; Martin, B; Poff, D; Sutton, M <i>Pharmacol Biochem Behav</i> 1988 , 31, 9-13.			

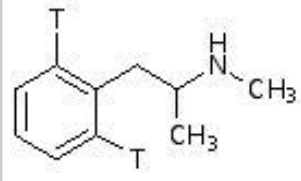
9 – Stimulants

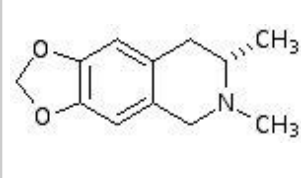
Catalog number : 1105-004			
Name : (+)-[2',6'- ³ H(n)]Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN		FW : 185.69 DEA schedule : 2	
Notes : CNS stimulant (tritium-labeled).			

Catalog number : 1105-008			
Name : (+)-[2,6- ³ H(n)]Methamphetamine			
Mol. formula : C ₁₀ H ₁₅ N		FW : 153.25 DEA schedule : 2	
Notes : CNS stimulant (tritium-labeled).			

Catalog number : 1105-002			
Name : (±)-[2',3',4',5',6'- ² H ₅]Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN		FW : 190.72 DEA schedule : 2	

Catalog number : 1105-006			
Name : (±)-[2',6'- ³ H(n)]Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN		FW : 189.71 DEA schedule : 2	
Notes : CNS stimulant (tritium-labeled).			

Catalog number : 1105-007			
Name : (±)-[2,6- ³ H(n)]Methamphetamine			
Mol. formula : C ₁₀ H ₁₅ N		FW : 153.25 DEA schedule : 2	
Notes : CNS stimulant (tritium-labeled).			

Catalog number : NOCD-074			
Name : (3S)-(+)-2,3-Dimethyl-6,7-methylenedioxytetrahydroisoquinoline hydrochloride			
Mol. formula : C ₁₂ H ₁₆ ClNO ₂		FW : 241.72 DEA schedule : 0	

Stimulants: Methylphenidate Class

Catalog number : NOCD-140

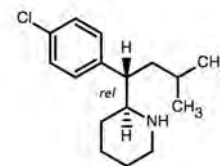
CASRN : 928046-68-8

Name : (RR/SS)-2-[1-(4-Chlorophenyl)-3-methylbutyl]piperidine hydrochloride

Mol. formula : $C_{16}H_{24}ClN$

FW : 265.83

DEA schedule : 0

Notes : *Methylphenidate analog*References : Froimowitz, M, et al., *J. Med. Chem.* **2007**, *50*, 219-232.

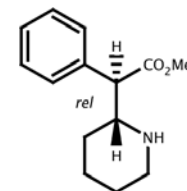
Catalog number : 1724-001

CASRN : 298-59-9

Name : (±)-*threo*-Methylphenidate hydrochloride; RitalinMol. formula : $C_{14}H_{20}ClNO_2$

FW : 269.77

DEA schedule : 2

Notes : *Mild CNS stimulant*References : *Merck Index*, 14th ed., Monograph 6110.

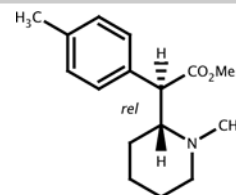
Catalog number : MEDD-014

CASRN : 204981-87-3

Name : (±)-N-Methyl-*threo*-*p*-methoxymethylphenidate hydrochlorideMol. formula : $C_{16}H_{24}ClNO_2$

FW : 297.83

DEA schedule : 0

**Stimulants: Miscellaneous**

Catalog number : NOCD-076

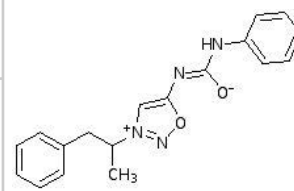
CASRN : 34262-84-5

Name : Mesocarb; Sydnocarb

Mol. formula : $C_{18}H_{18}N_4O_2$

FW : 322.14

DEA schedule : 3

Notes : *Stimulant; dopamine reuptake inhibitor*References : Bashkatova V; et al. *Ann N Y Acad Sci* **2002**, *965*, 180-92.

Catalog number : 1680-001

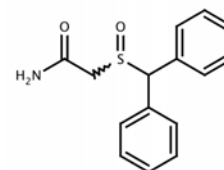
CASRN : 112111-43-0

Name : (±)-Modafinil

Mol. formula : $C_{15}H_{15}NO_2S$

FW : 273.35

DEA schedule : 4

References : Minzenberg, M; Carter, C *Neuropsychopharmacology* **2007**, *33*, 1477-1502.**Stimulants: Piperazine Class**

Catalog number : 7493-001

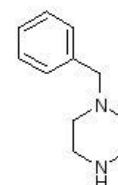
CASRN : 2759-28-6

Name : 1-Benzylpiperazine difumarate; BZP

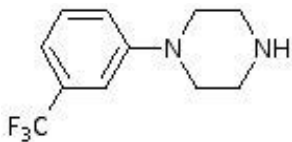
Mol. formula : $C_{19}H_{24}N_2O_8$

FW : 408.41

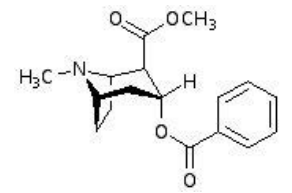
DEA schedule : 1

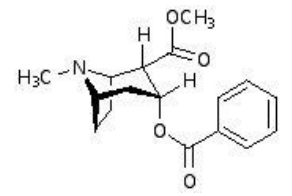
Notes : *Psychomotor stimulant; serotonin (5-HT1) agonist.*References : Lyon, RA; et al. *J Med Chem* **1986**, *29*, 630-4.Staack, RF *Lancet* **2007**, *369*, 1411-3.Lecompte, Y; Roussel O; Perrin M *Ann Pharm Fr* **2008**, *66*, 85-91.

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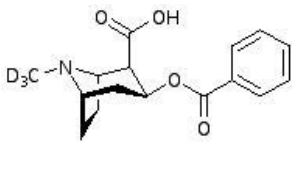
Catalog number : 7494-001			CASRN : 16015-69-3
Name : 1-(3-Trifluoromethylphenyl)piperazine hydrochloride; TFMPP			
Mol. formula : C ₁₁ H ₁₄ ClF ₃ N ₂	FW : 266.69	DEA schedule : 1	
Notes : <i>Psychomotor stimulant; serotonin (5-HT₁) agonist.</i>			
References : Glennon, RA; McKenney JD; Young R <i>Life Sci</i> 1984 , 35, 1475-80. Lecompte, Y; Roussel O; Perrin M <i>Ann Pharm Fr</i> 2008 , 66, 85-91.			

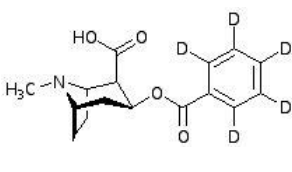
Stimulants: Tropane Class

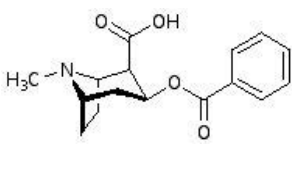
Catalog number : 9041-010			
Name : (±)-Allococaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 303.35	DEA schedule : 2	

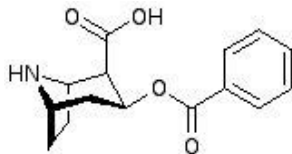
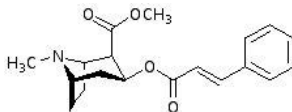
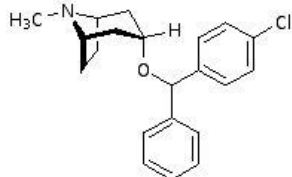
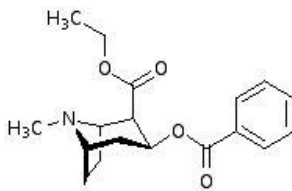
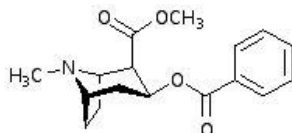
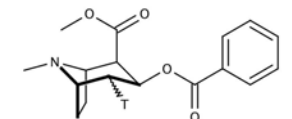
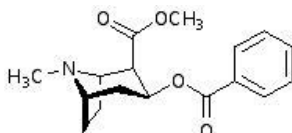
Catalog number : 9041-008			CASRN : 518-97-8
Name : (±)-Allopseudococaine hydrochloride			
Mol. formula : C ₁₇ H ₂₂ ClNO ₄	FW : 339.81	DEA schedule : 2	

Catalog number : 9180-003			
Name : (-)-[N-C ² H ₃]Benzoylecgonine			
Mol. formula : C ₁₆ H ₁₉ NO ₄		FW : 292.34	DEA schedule : 2

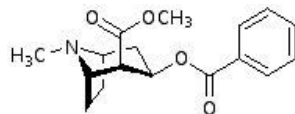
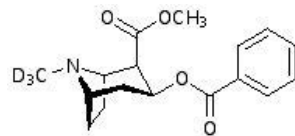
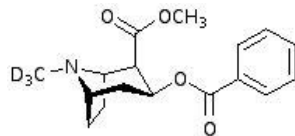
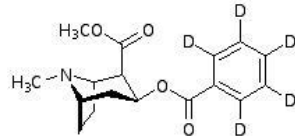
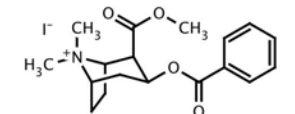
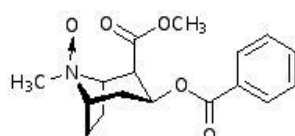
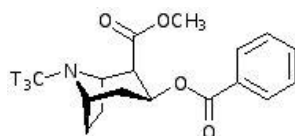


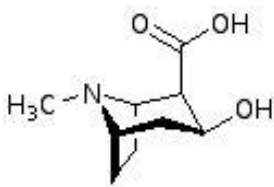
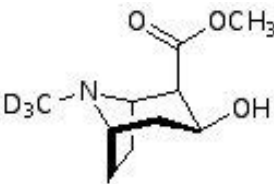
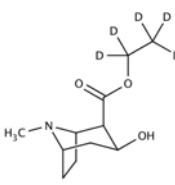
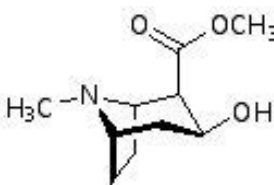
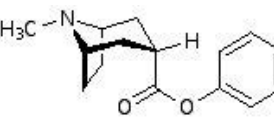
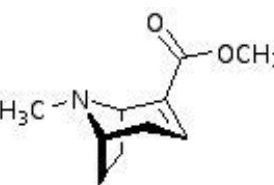
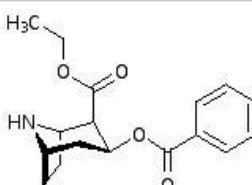
Catalog number : 9180-011			
Name : (-)-[Phenyl- ² H ₅]Benzoylecgonine			
Mol. formula : C ₁₆ H ₁₉ NO ₄	FW : 294.36	DEA schedule :	2
			

Catalog number : 9180-001			CASRN : 519-09-05
Name : (-)-Benzoylecgonine			
Mol. formula : C ₁₆ H ₁₉ NO ₄	FW : 289.34	DEA schedule : 2	
Notes : <i>Major metabolite of cocaine.</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 1113.			

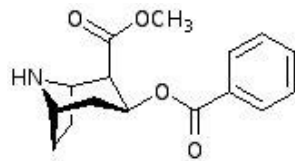
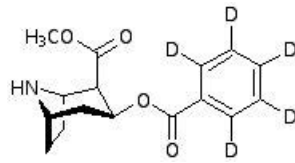
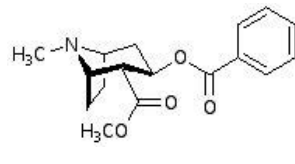
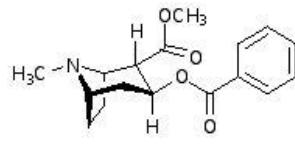
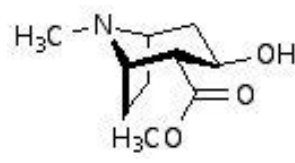
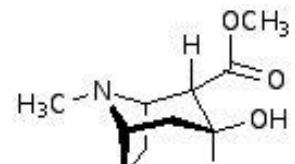
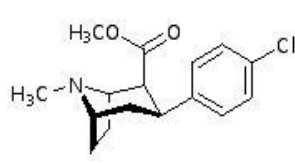
Catalog number : 9180-004			
Name : (-)-Benzoylnorecgonine hydrochloride			
Mol. formula : C ₁₅ H ₁₈ ClNO ₄	FW : 311.77	DEA schedule : 2	
Catalog number : 9041-011			
CASRN : 521-67-5			
Name : (-)-trans-Cinnamoylcocaine			
Mol. formula : C ₁₉ H ₂₃ NO ₄	FW : 329.38	DEA schedule : 2	
References : Novak, M; Salemink, CA; Khan, I <i>J Ethnopharmacol</i> 1984 , 10, 261-74.			
Catalog number : NOCD-004			
CASRN : 5627-46-3			
Name : Clobenztropine HCl			
Mol. formula : C ₂₁ H ₂₄ ClNO • HCl	FW : 378.35	DEA schedule : 0	
Catalog number : 9041-018			
Name : (-)-Cocaethylene fumarate			
Mol. formula : C ₂₂ H ₂₇ NO ₈	FW : 433.45	DEA schedule : 2	
Notes : Cocaine metabolite.			
References : Hearn, WL; <i>et al. Pharmacol Biochem Behav</i> 1991 , 39, 531-3. Hearn, WL; <i>et al. J Neurochem</i> 1991 , 56, 698-701.			
Catalog number : 9041-001			
CASRN : 53-21-4			
Name : (-)-Cocaine hydrochloride			
Mol. formula : C ₁₇ H ₂₂ ClNO ₄	FW : 339.81	DEA schedule : 2	
Notes : CNS stimulant; local anesthetic			
References : <i>Merck Index</i> , 14th ed., Monograph 2455.			
Catalog number : 9041-004			
CASRN : 85438-94-4			
Name : (-)-[4- ³ H]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 303.35	DEA schedule : 2	
Catalog number : 9041-012			
CASRN : 50-36-2			
Name : (-)-Cocaine base			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 303.35	DEA schedule : 2	
Notes : CNS stimulant; local anesthetic			
References : <i>Merck Index</i> , 14th ed., Monograph 2455.			

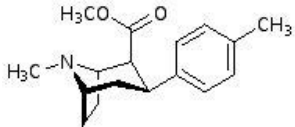
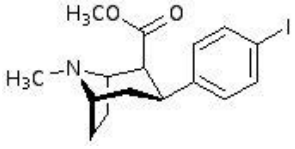
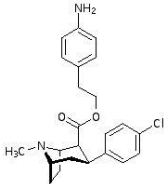
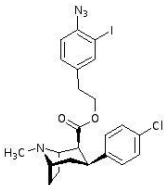
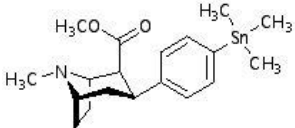
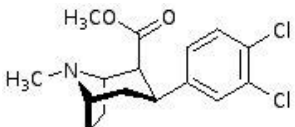
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Catalog number : 9041-020			CASRN : 47195-07-3
Name : (+)-Cocaine base			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 303.35	DEA schedule : 2	
Catalog number : 9041-006			
Name : (-)-[N-C ² H ₃]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 306.37	DEA schedule : 2	
Catalog number : 9041-007			
Name : (-)-[N-C ² H ₃]Cocaine hydrochloride			
Mol. formula : C ₁₇ H ₂₂ ClNO ₄	FW : 342.83	DEA schedule : 2	
Catalog number : 9041-009			
Name : (-)-[Phenyl- ² H ₅]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 344.84	DEA schedule : 2	
Catalog number : 9041-013			CASRN : 5937-29-1
Name : (-)-Cocaine methiodide			
Mol. formula : C ₁₈ H ₂₄ INO ₄	FW : 445.28	DEA schedule : 2	
References : Abraham, P; Pitner, JB; Lewin, AH; Boja, JW; Kuhar, MJ; Carroll, FI <i>J Med Chem</i> 1992 , 35, 141-4.			
Catalog number : 9041-014			
Name : (-)-Cocaine N-oxide hydrochloride			
Mol. formula : C ₁₇ H ₂₂ ClNO ₅	FW : 355.81	DEA schedule : 2	
Catalog number : 9041-003			
Name : (-)-[N-C ³ H ₃]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 309.38	DEA schedule : 2	

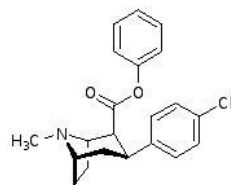
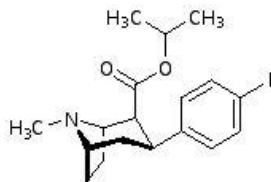
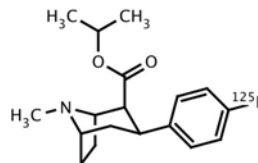
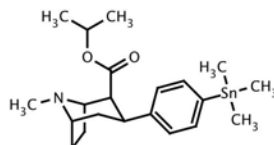
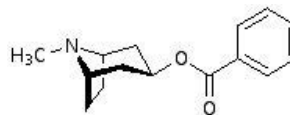
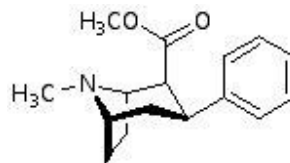
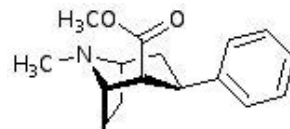
Catalog number : 9180-002			CASRN : 5796-31-6
Name : (-)-Ecgonine hydrochloride			
Mol. formula :	C ₉ H ₁₆ ClNO ₃	FW : 221.69 DEA schedule : 2	
Notes : Cocaine metabolite.			
References : Merck Index, 14th ed., Monograph 3493.			
Catalog number : 9180-007			
Name : [N-C ² H ₃]Ecgonine methyl ester hydrochloride			
Mol. formula :	C ₁₀ H ₁₈ ClNO ₃	FW : 238.73 DEA schedule : 2	
Catalog number : 9180-021			CASRN : 259526-73-3
Name : Ecgonine (1,1,2,2,2- ² H ₅)ethyl ester perchlorate			
Mol. formula :	C ₁₁ H ₁₄ D ₅ NO ₃ • HClO ₄	FW : 318.76 DEA schedule : 2	
Catalog number : 9180-006			CASRN : 7143-09-1
Name : (-)-Ecgonine methyl ester hydrochloride			
Mol. formula :	C ₁₀ H ₁₈ ClNO ₃	FW : 235.71 DEA schedule : 2	
Catalog number : 9041-015			
Name : Isotropacocaine hydrochloride			
Mol. formula :	C ₁₅ H ₂₀ ClNO ₂	FW : 281.79 DEA schedule : 2	
Catalog number : 9180-015			
Name : (-)-Anhydroecgonine methyl ester fumarate; Methyl ecgonidine			
Mol. formula :	C ₁₄ H ₁₉ NO ₆	FW : 297.31 DEA schedule : 0	
Catalog number : 9041-019			CASRN : 137220-02-1
Name : (-)-Norcoecaethylene fumarate			
Mol. formula :	C ₂₁ H ₂₅ NO ₈	FW : 419.43 DEA schedule : 2	

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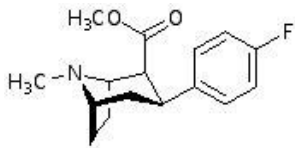
Catalog number : 9041-002			CASRN : 18717-72-1
Name : (-)-Norcocaine			
Mol. formula :	C ₁₆ H ₁₉ NO ₄	FW : 289.32 DEA schedule : 2	
References : Wang, Q; Simpao, A; Sun L; Falk, JL; Lau, CE <i>Psychopharmacology (Berl)</i> 2001 , 153, 341-52. Kovacic, P <i>Med Hypotheses</i> 2005 , 64, 350-6.			
Catalog number : 9041-017			CASRN : 478-73-9
Name : (-)-[Phenyl- ² H ₅]Norcocaine fumarate			
Mol. formula :	C ₂₀ H ₂₃ NO ₈	FW : 410.43 DEA schedule : 2	
Catalog number : 9041-021			CASRN : 478-73-9
Name : (-)-Pseudococaine hydrochloride			
Mol. formula :	C ₁₇ H ₂₂ ClNO ₄	FW : 339.81 DEA schedule : 2	
Catalog number : 9041-005			CASRN : 478-73-9
Name : (+)-Pseudococaine hydrochloride			
Mol. formula :	C ₁₇ H ₂₂ ClNO ₄	FW : 339.81 DEA schedule : 2	
Catalog number : 9180-020			CASRN : 130342-80-2
Name : (-)-Pseudoecgonine methyl ester			
Mol. formula :	C ₁₀ H ₁₇ NO ₃	FW : 199.25 DEA schedule : 2	
Catalog number : 9180-005			CASRN : 130342-80-2
Name : (+)-Pseudoecgonine methyl ester			
Mol. formula :	C ₁₀ H ₁₇ NO ₃	FW : 199.25 DEA schedule : 2	
Catalog number : NOCD-020			CASRN : 130342-80-2
Name : (-)-3β-(4-Chlorophenyl)tropan-2β-carboxylic acid methyl ester tartrate salt; RTI-31			
Mol. formula :	C ₂₀ H ₂₆ ClNO ₈	FW : 443.87 DEA schedule : 0	
Notes : Nonselective monoamine uptake inhibitor.			
References : Carroll, FI; et al. <i>J Med Chem</i> 1995 , 38, 379-88.			

Catalog number : NOCD-021			CASRN : 130342-81-3
Name : (-)-3β-(4-Methylphenyl)tropan-2β-carboxylic acid methyl ester tartrate; RTI-32			
Mol. formula :	C ₂₁ H ₂₉ NO ₈	FW : 423.46	DEA schedule : 0
Notes : Nonselective monoamine uptake inhibitor.			
References : Boja, JW; Carroll, FI; Rahman, MA; Philip, A; Lewin, AH; Kuhar, MJ <i>Eur J Pharmacol</i> 1990 , 184, 329-32.			
Catalog number : NOCD-025			CASRN : 133647-95-7
Name : (-)-3β-(4-Iodophenyl)tropan-2β-carboxylic acid methyl ester tartrate; RTI-55			
Mol. formula :	C ₂₀ H ₂₆ INO ₈	FW : 535.32	DEA schedule : 0
Notes : Nonselective monoamine uptake inhibitor.			
References : Boja, JW; <i>et al. Eur J Pharmacol</i> 1991 , 194, 133-4. Carroll, FI; <i>et al. J Med Chem</i> 1991 , 34, 2719-25. Carroll, FI; <i>et al. J Med Chem</i> 1995 , 38, 379-88.			
Catalog number : NOCD-029			
Name : (-)-3β-(4-Chlorophenyl)tropan-2β-carboxylic acid (4'-aminophenyl)ethyl ester dihydrochloride; RTI-75			
Mol. formula :	C ₂₃ H ₂₉ Cl ₃ N ₂ O ₂	FW : 471.86	DEA schedule : 0
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 1813-7.			
Catalog number : NOCD-030			
Name : (-)-3β-(4-Chlorophenyl)tropan-2β-carboxylic acid (4'-Azido-3'-iodophenyl)ethyl ester hydrochloride; RTI-82			
Mol. formula :	C ₂₃ H ₂₅ Cl ₂ IN ₄ O ₂	FW : 587.29	DEA schedule : 0
Notes : Dopamine transporter photoaffinity ligand.			
References : Carroll, FI; <i>et al. J Med Chem</i> 1992 , 35, 1813-7.			
Catalog number : NOCD-031			
Name : 3β-[4-(Trimethylstannyl)phenyl]tropan-2β-carboxylic acid methyl ester; RTI-89			
Mol. formula :	C ₁₉ H ₂₉ NO ₂ Sn	FW : 422.12	DEA schedule : 0
Notes : Precursor for the synthesis of [¹²⁵ I]- and [¹²³ I]-RTI-55.			
References : Carroll, FI; <i>et al. Med Chem Res</i> 1991 , 1, 289-294.			
Catalog number : NOCD-028			
Name : (-)-3β-(3,4-Dichlorophenyl)tropan-2β-carboxylic acid methyl ester hydrochloride; RTI-111			
Mol. formula :	C ₁₆ H ₂₀ Cl ₃ NO ₂	FW : 364.70	DEA schedule : 0
Notes : Nonselective monoamine uptake inhibitor.			
References : Carroll, FI; <i>et al. J Med Chem</i> 1995 , 38, 379-88.			

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Catalog number : NOCD-026			CASRN : 316790-73-5
Name : (-)-3β-(4-Chlorophenyl)tropan-2β-carboxylic acid phenyl ester hydrochloride; RTI-113			
Mol. formula : C ₂₁ H ₂₅ Cl ₂ NO ₃	FW : 410.32	DEA schedule : 0	
Notes : Selective dopamine uptake inhibitor.			
References : Carroll, FI; <i>et al. J Med Chem</i> 1995, 38, 379-88.			
Catalog number : NOCD-027			CASRN : 146145-21-3
Name : (-)-3β-(4-Iodophenyl)tropan-2β-carboxylic acid isopropyl ester hydrochloride; RTI-121; IPCIT			
Mol. formula : C ₁₈ H ₂₅ ClINO ₄	FW : 449.74	DEA schedule : 0	
References : Carroll, FI; <i>et al. J Med Chem</i> 1995, 38, 379-88.			
Catalog number : NOCD-077			
Name : [¹²⁵ I]RTI-121			
Mol. formula : C ₁₈ H ₂₄ INO ₂	FW : 413.29	DEA schedule : 0	
References : Scheffel, U; <i>et al. Neuroreport</i> 1992, 3, 969-72. Carroll, FI; <i>et al. J Med Chem</i> 1995, 38, 379-88.			
Catalog number : NOCD-032			
Name : (-)-3β-[4-(Trimethylstannyl)phenyl]tropan-2β-carboxylic acid isopropyl ester; RTI-136			
Mol. formula : C ₂₁ H ₃₃ NO ₂ Sn	FW : 450.19	DEA schedule : 0	
Notes : Precursor for the synthesis of [¹²⁵ I]- and [¹²³ I]-RTI-121.			
References : Carroll, FI; <i>et al. Med Chem Res</i> 1991, 1, 289-294.			
Catalog number : 9041-016			CASRN : 637-23-0
Name : Tropicocaine hydrochloride			
Mol. formula : C ₁₅ H ₂₀ ClNO ₂	FW : 281.79	DEA schedule : 2	
References : Novak, M; Salemink, CA; Khan, I <i>J Ethnopharmacol</i> 1984, 10, 261-74. Meyer, EM; <i>et al. J Pharmacol Exp Ther</i> 1990, 254, 584-90.			
Catalog number : NOCD-023			
Name : (-)-3β-Phenyltropan-2β-carboxylic acid methyl ester tartrate; WIN 35,065-2			
Mol. formula : C ₂₀ H ₂₇ NO ₈	FW : 409.43	DEA schedule : 0	
Notes : Nonselective monoamine uptake inhibitor.			
References : Carroll, FI; <i>et al. J Med Chem</i> 1995, 38, 379-88.			
Catalog number : NOCD-024			
Name : (+)-3β-Phenyltropan-2β-carboxylic acid methyl ester tartrate; WIN 35,065-3			
Mol. formula : C ₂₀ H ₂₇ NO ₈	FW : 409.43	DEA schedule : 0	

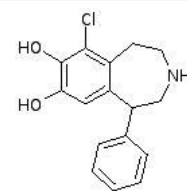
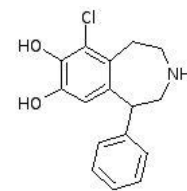
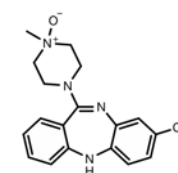
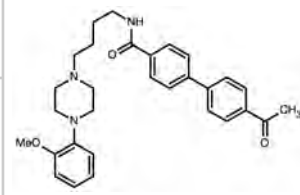
Catalog number : NOCD-022			CASRN : 50370-56-4
Name : (-)-3β-(4-Fluorophenyl)tropan-2β-carboxylic acid methyl ester tartrate; WIN 35,428			
Mol. formula : C ₂₀ H ₂₆ FNO ₈	FW : 427.42	DEA schedule : 0	
Notes : <i>Nonselective monoamine uptake inhibitor.</i>			
References : Carroll, FI; <i>et al. J Med Chem</i> 1995, 38, 379-88.			



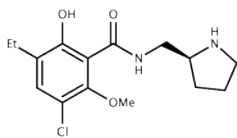
Stimulants (dosage form): Stock Solutions

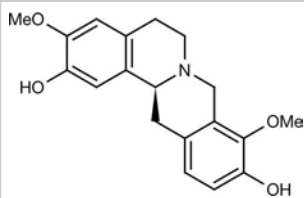
Catalog number : 9041-022		Dosage Form
Name : Injectable cocaine hydrochloride (10 mg/mL and 20 mg/mL)		
DEA schedule : 2		
Notes : <i>Not for human use.</i>		



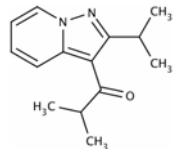
Miscellaneous: Dopaminergic**Catalog number :** MEDD-002**Name :** (±)-1-(2-Bromo-4,5-dimethoxybenzyl)-7-hydroxy-6-methoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline hydrobromide; A69024 HBr**Mol. formula :** C₂₀H₂₅Br₂NO₄ **FW :** 503.23 **DEA schedule :** 0**Notes :** Dopamine D1 receptor antagonist**References :** Caine, SB; Koob, GF., *J Pharmacol Exp Ther* **1994**, 270, 209-18.**Catalog number :** MEDD-004**Name :** (±)-6-Chloro-7,8-dihydroxy-1-phenyl-2,3,4,5-tetrahydro[1H]-3-benzazepine hydrobromide**Mol. formula :** C₁₆H₁₇BrClNO₂ **FW :** 370.67 **DEA schedule :** 0**Catalog number :** MEDD-005**Name :** (±)-6-Chloro-7,8-dihydroxy-1-phenyl-2,3,4,5-tetrahydro[1H]-3-benzazepine hydrochloride**Mol. formula :** C₁₆H₁₇Cl₂NO₂ **FW :** 326.22 **DEA schedule :** 0**Catalog number :** NOCD-135**CASRN :** 34233-69-7**Name :** Clozapine N-oxide**Mol. formula :** C₁₈H₁₉ClN₄O **FW :** 342.82 **DEA schedule :** 0**Notes :** Clozapine metabolite.**References :** Jann, MW; *et al.*, *Clin Pharmacokinet* **1993**, 24, 161-76.
Nawaratne, V; *et al.*, *Mol Pharmacol* **2008**, 74, 1119-31.
Becnel, J; *et al.*, *Cell Rep* **2013**, 4, 1049-59.**Catalog number :** NOCD-047**CASRN :** 162408-66-4**Name :** GR103691**Mol. formula :** C₃₀H₃₇N₃O₃ **FW :** 566.57 **DEA schedule :** 0**Notes :** Selective dopamine D3 receptor antagonist**References :** Audinot, V; *et al.* *J Pharmacol Exp Ther* **1998**, 287, 187-97.

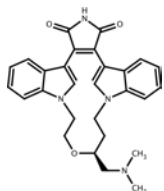
10 – Miscellaneous Compounds

Catalog number : NOCD-120		CASRN : 101536-82-7
Name : (+)-(-)-Noreticlopride HCl		
Mol. formula :	$C_{15}H_{22}Cl_2N_2O_3$	
FW :	349.26	
DEA schedule :	0	
Notes : Dopamine D2 receptor antagonist.		
References : de Paulis, T; Hall H; Ogren SO, <i>European Journal of Medicinal Chemistry</i> 1985, 20, 273-276.		

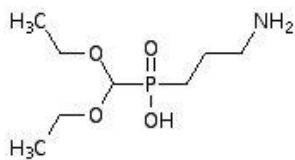
Catalog number : NOCD-014		CASRN : 16562-13-3
Name : L-Stepholidine		
Mol. formula :	$C_{19}H_{21}NO_4$	
FW :	327.37	
DEA schedule :	0	
Notes : D1 agonist / D2 antagonist		
References : Mo, J; et al. <i>Curr Med Chem</i> 2007, 14, 2996-3002. Wang, W; et al. <i>Neuropharmacology</i> 2007, 52, 355-61.		

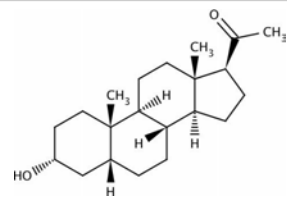
Miscellaneous: Enzyme Inhibitors

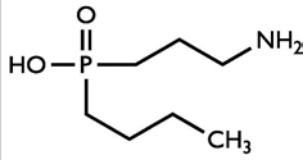
Catalog number : NOCD-104		CASRN : 50847-11-5
Name : Ibudilast		
Mol. formula :	$C_{14}H_{18}N_2O$	
FW :	230.31	
DEA schedule :	0	
Notes : Orally-available phosphodiesterase inhibitor. Induces cerebral vasodilation.		
References : (1) Nishino, K; et al., <i>Jpn J Pharmacol</i> 1983, 33, 267-78; (2) Souness, JE; et al., <i>Br J Pharmacol</i> 1994, 111, 1081-8.		

Catalog number : NOCD-127		CASRN : 169939-94-0
Name : Ruboxistaurin; LY-333,531		
Mol. formula :	$C_{28}H_{28}N_4O_3$	
FW :	468.55	
DEA schedule :	0	
Notes : PKCβ inhibitor.		
References : Gani O, Engh RA, <i>Nat Prod Rep</i> , 2010, 27, 489.		

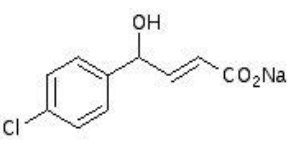
Miscellaneous: GABA Receptor Related

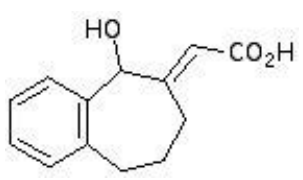
Catalog number : NOCD-045		CASRN : 123690-79-9
Name : (3-Aminopropyl)(diethoxymethyl)phosphinic acid; CGP-35348		
Mol. formula :	$C_8H_{20}NO_4P$	
FW :	225.23	
DEA schedule :	0	
Notes : GABAB receptor antagonist.		
References : Olpe, HR; et al. <i>Eur J Pharmacol</i> 1990, 187, 27-38.		

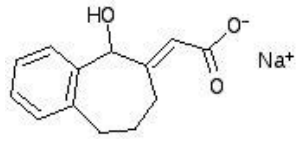
Catalog number : NOCD-102		CASRN : 128-20-1
Name : Pregnanolone		
Mol. formula :	$C_{21}H_{34}O_2$	
FW :	318.49	
DEA schedule :	0	
Notes : Progesterone metabolite and barbiturate-like modulator of GABA _A receptors.		
References : Quinton, MS; et al. <i>Pharmacol Biochem Behav</i> 2006, 85, 385-92. Kaminski, RM; et al. <i>Eur J Pharmacol</i> 2003, 474, 217-22. Leskiewicz, M; et al. <i>Pol J Pharmacol</i> 2003, 55, 1131-6.		

Catalog number : NOCD-103			CASRN : 145537-81-1
Name : SGS-742; CGP-36742			
Mol. formula :	$C_7H_{18}NO_2P$	FW : 179.19	DEA schedule : 0
Notes : <i>GABA_B receptor antagonist.</i>			
References : Bullock, R Curr Opin Investig Drugs 2005, 6, 108-13. Froestl, W; et al. Biochem Pharmacol 2004, 68, 1479-87.			

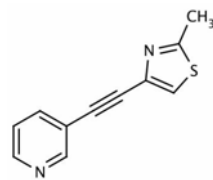
Miscellaneous: GHB Receptor Related

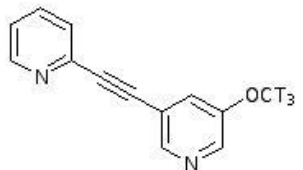
Catalog number : NOCD-044			
Name : <i>trans</i> -4-(4-Chlorophenyl)-4-hydroxy-2-butenic acid sodium salt; NCS 356			
Mol. formula :	$C_{10}H_8ClO_3Na$	FW : 234.61	DEA schedule : 0
Notes : <i>γ-Hydroxybutyrate receptor agonist.</i>			
References : Gobaille, S; et al. J Pharmacol Exp Ther 1999, 290, 303-9.			

Catalog number : NOCD-042			
Name : 6,7,8,9-Tetrahydro-5-[H]benzocycloheptene-5-ol-4-ylideneacetic acid; NCS 382			
Mol. formula :	$C_{13}H_{14}O_3$	FW : 218.25	DEA schedule : 0
Notes : <i>γ-Hydroxybutyrate receptor antagonist; anticonvulsant.</i>			
References : Maitre, M; et al. J Pharmacol Exp Ther 1990, 255, 657-63.			

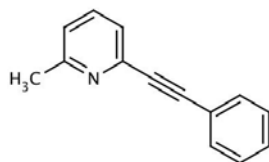
Catalog number : NOCD-043			CASRN : 131733-92-1
Name : 6,7,8,9-Tetrahydro-5-[H]benzocycloheptene-5-ol-4-ylideneacetic acid, sodium salt; NCS 382 sodium salt			
Mol. formula :	$C_{13}H_{13}O_3Na$	FW : 240.24	DEA schedule : 0
Notes : <i>γ-Hydroxybutyrate receptor antagonist; anticonvulsant.</i>			
References : Maitre, M; et al. J Pharmacol Exp Ther 1990, 255, 657-63.			

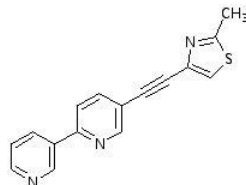
Miscellaneous: Glutamate Receptor Related

Catalog number : MEDD-026			CASRN : 329205-68-7
Name : 3-[(2-Methyl-4-thiazolyl)ethynyl]pyridine; MTEP			
Mol. formula :	$C_{11}H_8N_2S$	FW : 200.26	DEA schedule : 0
References : Bradbury, MJ; et al. J Pharmacol Exp Ther 2005, 313, 395-402. Klodzinska, A; et al. Neuropharmacology 2004, 47, 342-50. Busse, CS; et al. Neuropsychopharmacology 2004, 29, 1971-9.			

Catalog number : NOCD-058			
Name : 3-[³ H ₃]Methoxy-5-(pyridin-2-yl-ethynyl)pyridine			
Mol. formula :	$C_{13}H_{10}N_2O$	FW : 216.26	DEA schedule : 0
Notes : <i>Tritium-labeled MPEP analog</i>			

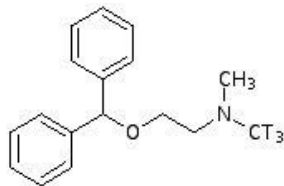
10 – Miscellaneous Compounds

Catalog number : MEDD-018			CASRN : 219911-35-0
Name : 6-Methyl-2-(phenylethynyl)pyridine hydrochloride; MPEP			
Mol. formula : C ₁₄ H ₁₂ ClN	FW : 229.71	DEA schedule : 0	
Notes : <i>mGlu5</i> antagonist			
References : Gasparini, F; <i>et al. Neuropharmacology</i> 1999 , 38, 1493-503. Alagille, D; <i>et al. Bioorg Med Chem</i> 2005 , 13, 197-209.			

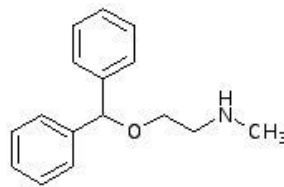
Catalog number : NOCD-033			CASRN : 329204-25-3
Name : 5-[(2-Methyl-4-thiazolyl)ethynyl]-2,3'-bipyridine; MTEb			
Mol. formula : C ₁₆ H ₁₁ N ₃ S	FW : 277.34	DEA schedule : 0	
References : Roppe, JR; <i>et al. Bioorg Med Chem Lett</i> 2004 , 14, 3993-3996.			

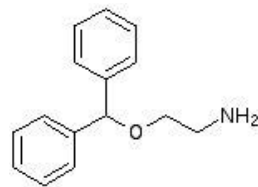
Miscellaneous: Histamine Receptor Related

Catalog number : NOCD-063			
Name : [N-C ³ H ₃]Diphenhydramine			
Mol. formula : C ₁₇ H ₂₁ NO		FW : 261.38	DEA schedule : 0

CN(C)CCOC(c1ccccc1)c2ccccc2

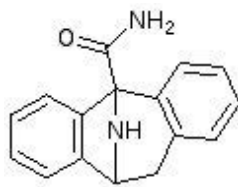
Catalog number : NOCD-060			
Name : Nordiphenhydramine hydrochloride			
Mol. formula : C ₁₆ H ₂₀ ClNO		FW : 277.80	DEA schedule : 0
Notes : <i>Diphenhydramine metabolite</i>			

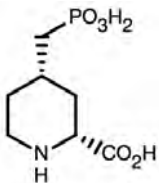
CN(C)CCOC(c1ccccc1)c2ccccc2

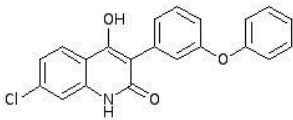
Catalog number : NOCD-061			
Name : Dinordiphenhydramine hydrochloride			
Mol. formula : C ₁₅ H ₁₈ ClNO	FW : 263.76	DEA schedule : 0	
Notes : <i>Diphenhydramine metabolite</i>			

Miscellaneous: NMDA Receptor Related

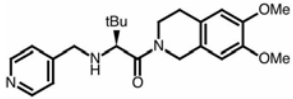
Catalog number : MEDD-003			
Name : (±)-5-(Aminocarbonyl)-10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5,10-imine hydrochloride; ADCI HCl			
Mol. formula : C ₁₆ H ₁₅ ClN ₂ O		FW : 286.76	DEA schedule : 0
Notes : <i>NMDA channel blocker</i>			

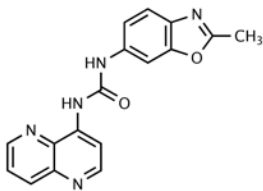


Catalog number : NOCD-019			CASRN : 110347-85-8
Name : CGS 19755; Selfotel			
Mol. formula :	C ₇ H ₁₄ NO ₅ P	FW : 223.16	DEA schedule : 0
Notes : <i>NMDA receptor antagonist.</i>			
References : Hutchison, AJ; <i>et al. J Med Chem</i> 1989 , 32, 2171-8.			

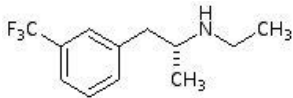
Catalog number : NOCD-010			CASRN : 142326-59-8
Name : 7-Chloro-4-hydroxy-3-(3-phenoxyphenyl)-2(1H)quinoline; L 701,324			
Mol. formula :	C ₂₁ H ₁₄ ClNO ₃	FW : 363.79	DEA schedule : 0
Notes : <i>Glycine/NMDA receptor antagonist.</i>			
References : Bristow, LJ; <i>et al. Psychopharmacology (Berl)</i> 1995 , 118, 230-2. Bristow, LJ; <i>et al. J Pharmacol Exp Ther</i> 1996 , 279, 492-501.			

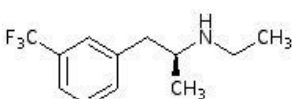
Miscellaneous: Orexin Receptor Related

Catalog number : NOCD-111			CASRN : 372523-75-6
Name : Cp-5			
Mol. formula :	C ₂₃ H ₃₃ ClN ₃ O ₃	FW : 470.44	DEA schedule : 0
Notes : <i>Non-peptidic orexin-2 receptor selective antagonist.</i>			
References : Hirose, M, <i>et al., Bioorg Med Chem Letters</i> , 2003 , 13, 4497-4499.			

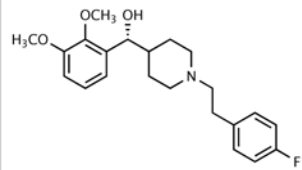
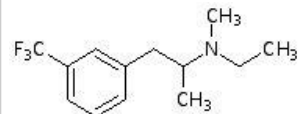
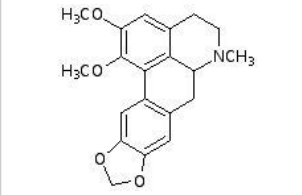
Catalog number : NOCD-006			CASRN : 249889-64-3
Name : SB-334867 (base)			
Mol. formula :	C ₁₇ H ₁₃ N ₅ O ₂	FW : 392.24	DEA schedule : 0
Notes : <i>Orexin (hypocretin) antagonist</i>			
References : Coe, JW; <i>et al., Bioorg Med Chem Lett</i> , 2005 , 15, 4889-4897. McElhinny, CJ, Jr.; <i>et al., Bioorg Med Chem Lett</i> , 2012 , 22, 6661-6664.			

Miscellaneous: Serotonergic

Catalog number : 1670-002			CASRN : 3616-78-2
Name : (-)-Fenfluramine hydrochloride			
Mol. formula :	C ₁₂ H ₁₇ ClF ₃ N	FW : 267.72	DEA schedule : 4
Notes : <i>CNS stimulant</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 3973.			

Catalog number : 1670-001			CASRN : 3239-45-0
Name : (+)-Fenfluramine hydrochloride			
Mol. formula :	C ₁₂ H ₁₇ ClF ₃ N	FW : 267.72	DEA schedule : 4
Notes : <i>CNS stimulant; serotonin releaser</i>			
References : <i>Merck Index</i> , 14th ed., Monograph 3973.			

10 – Miscellaneous Compounds

Catalog number : NOCD-015			CASRN : 139290-65-6
Name : MDL-100907; Volinanserin			
Mol. formula :	$C_{22}H_{29}ClFNO_3$	FW : 418.94	DEA schedule : 0
Notes : <i>5-HT_{2A} antagonist</i>			
References : Ullrich, T; Rice KCBioorg Med Chem 2000 , 8, 2427-32.			
Catalog number : 1670-003			
Name : (±)-N-Methylfenfluramine hydrochloride			
Mol. formula :	$C_{13}H_{19}ClF_3N$	FW : 281.75	DEA schedule : 0
Notes : <i>CNS stimulant</i>			
Catalog number : NOCD-048			CASRN : 2565-01-7
Name : Nantenine			
Mol. formula :	$C_{20}H_{21}NO_4$	FW : 339.39	DEA schedule : 0
Notes : <i>Serotonergic receptor antagonist.</i>			
References : Fantegrossi, WE; et al. <i>Psychopharmacology (Berl)</i> 2004 , 173, 270-7.			

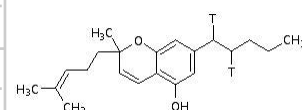
Cannabinoids: Cannabichromene Class

Catalog number : 7360-008

CASRN : 20675-51-8 (parent cmpd)

Name : [1',2'-³H₂]CannabichromeneMol. formula : C₂₁H₃₀O₂

FW : 314.46 DEA schedule : 1

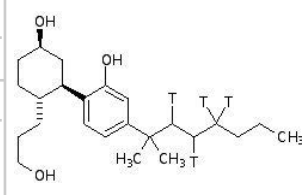
Notes : *Non-psychoactive constituent of cannabis (tritium-labeled).*References : *Instrumental Data for Drug Analysis*, 2nd Ed., 1996, Volume 1, p304.**Cannabinoids: Cannabicyclohexanol Class**

Catalog number : NOCD-092

CASRN : 119095-48-6

Name : [2,3,4,4-³H₄](–)-CP 55,940Mol. formula : C₂₄H₄₀O₃

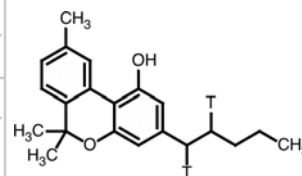
FW : 376.58 DEA schedule : 0

Notes : *High affinity CB1 and CB2 receptor radioligand (tritium-labeled).***Cannabinoids: Cannabinol Class**

Catalog number : 7360-023

Name : [1',2'-³H₂]CannabinolMol. formula : C₂₁H₂₆O₂

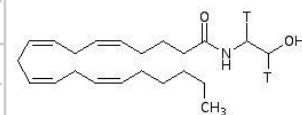
FW : 310.43 DEA schedule : 1

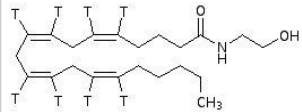
**Cannabinoids: Fatty Acid Derivatives (Anandamides)**

Catalog number : NOCD-008

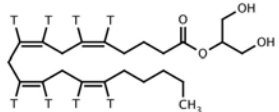
Name : Arachidonyl[1,2-³H]ethanolamide; Tritiated AnandamideMol. formula : C₂₂H₃₇NO₂

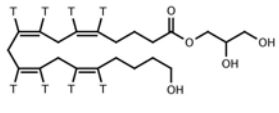
FW : 347.54 DEA schedule : 0



Catalog number : NOCD-078	
Name : Tritium-labeled Arachidonylethanolamide; Tritiated Anandamide	
Mol. formula : C ₂₂ H ₃₇ NO ₂	FW : 347.54 DEA schedule : 0
Notes : <i>Cannabinoid CB1 and CB2 receptor radioligand.</i>	
	

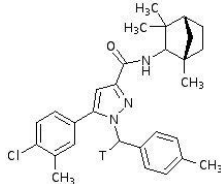
Cannabinoids: Fatty Acid Derivatives (Arachidonyl esters)

Catalog number : NOCD-018	
Name : [³ H]-2-Arachidonylglycerol; [³ H]-2-AG	
Mol. formula : C ₂₃ H ₃₈ O ₄	FW : 378.55 DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist (tritium-labeled).</i>	
References : Stella, N; Schweitzer, P; Piomelli, D <i>Nature</i> 1997 , 388, 773-8.	
	

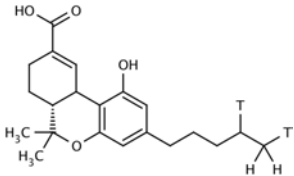
Catalog number : NOCD-035	
Name : Tritium-labeled 1-Arachidonylglycerol; [³ H]-1-AG	
Mol. formula : C ₂₃ H ₃₈ O ₄	FW : 378.55 DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor agonist (tritium-labeled).</i>	
References : Stella, N; Schweitzer, P; Piomelli D <i>Nature</i> 1997 , 388, 773-8.	
	

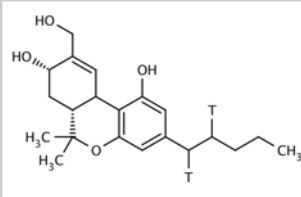
Cannabinoids: Pyrazole Class

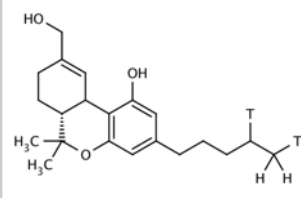
Catalog number : NOCD-083		CASRN : 170937-38-9
Name : [2,4-Dichlorophenyl-6- ³ H]SR141716		
Mol. formula : C ₂₂ H ₂₁ Cl ₃ N ₄ O	FW : 465.80	DEA schedule : 0
Notes : <i>Cannabinoid CB1 receptor radioligand (tritium-labeled).</i>		
References : Seltzman, H; et al. <i>J Chem Soc, Chem Commun</i> 1995 , 1549-1550.		
		

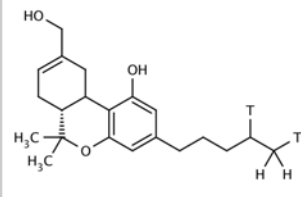
Catalog number : NOCD-086		CASRN : 475471-24-0
Name : Tritium-labeled SR144528		
Mol. formula : C ₂₉ H ₃₄ N ₃ OCl	FW : 478.05	DEA schedule : 0
Notes : <i>Cannabinoid CB2 receptor radioligand (tritium-labeled).</i>		
References : Portier, M; et al. <i>J Pharmacol Exp Ther</i> 1999 , 288, 582-9. Rinaldi-Carmona, M; et al. <i>J Pharmacol Exp Ther</i> 1998 , 284, 644-50.		
		

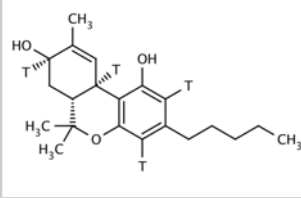
Cannabinoids: Tetrahydrocannabinol Class

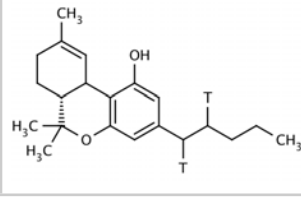
Catalog number : 7370-017	
Name : [4',5'- ³ H ₂]9-Carboxy-11-nor-Δ ⁹ -THC	
Mol. formula : C ₂₁ H ₂₈ O ₄	FW : 348.46 DEA schedule : 1
Notes : <i>Urinary metabolite of THC (tritium-labeled).</i>	
	

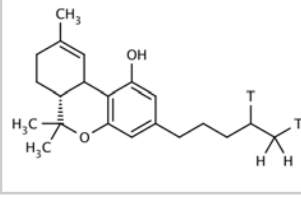
Catalog number : 7370-026		
Name : [1',2'- ³ H ₂]-8α,11-Dihydroxy-Δ ⁹ -THC		
Mol. formula : C ₂₁ H ₃₀ O ₄	FW : 350.48	DEA schedule : 1
		

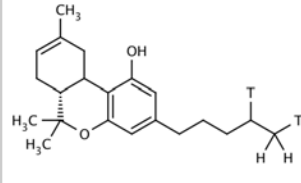
Catalog number : 7370-024		
Name : [4',5'- ³ H ₂]-11-Hydroxy-Δ ⁹ -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1
		

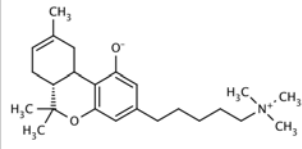
Catalog number : 7370-035		
Name : [4',5'- ³ H ₂]-11-Hydroxy-Δ ⁸ -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1
		

Catalog number : 7370-021		
Name : [2,4,8,10a- ³ H ₄]-8β-Hydroxy-Δ ⁹ -THC		
Mol. formula : C ₂₁ H ₃₀ O ₃	FW : 338.49	DEA schedule : 1
		

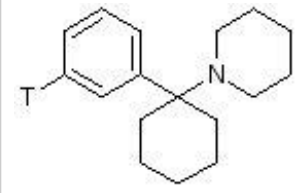
Catalog number : 7370-004		
Name : [1',2'- ³ H ₂] Δ^9 -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1
Notes : <i>Hallucinogen; psychotropic; analgesic (tritium-labeled).</i>		
		

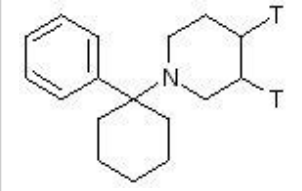
Catalog number : 7370-009		
Name : [4',5'- ³ H] Δ^9 -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1
		

Catalog number : 7370-027		
Name : [4',5'- ³ H ₂] Δ^8 -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 318.48	DEA schedule : 1
Notes : <i>Hallucinogen; psychotropic; analgesic (tritium-labeled).</i>		
		

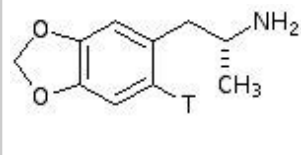
Catalog number : 7370-052			
Name : [$^3\text{H}_3$]-5'-Trimethylammonium- Δ^8 -THC phenolate			
Mol. formula : $\text{C}_{24}\text{H}_{37}\text{NO}_2$	FW : 371.56	DEA schedule :	1
			

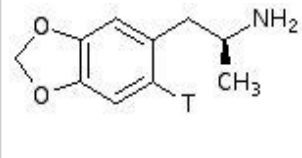
Dissociatives: Phencyclidine Class

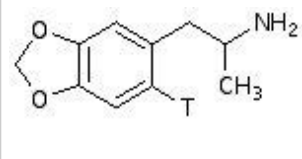
Catalog number : 7471-001			
Name : [Phenyl-3- $^3\text{H}(\text{n})$]Phencyclidine; [Phenyl-3- $^3\text{H}(\text{n})$]PCP			
Mol. formula : $\text{C}_{17}\text{H}_{25}\text{N}$	FW : 245.40	DEA schedule :	2
			

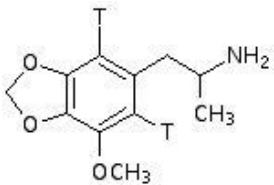
Catalog number : 7471-043			
Name : [3',4'- ^3H]Phencyclidine; [3,4- ^3H]PCP			
Mol. formula : $\text{C}_{17}\text{H}_{25}\text{N}$	FW : 247.4	DEA schedule :	2
			

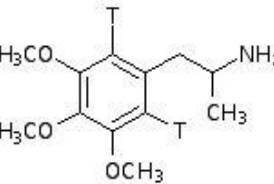
Hallucinogens: Amphetamine Class

Catalog number : 7400-006		CASRN : 6292-91-7	
Name : (-)-[6'- ³ H ₂ (n)]-3',4'-Methylenedioxyamphetamine hydrochloride; (-)-[6'- ³ H ₂ (n)]MDA			
Mol. formula : C ₁₀ H ₁₄ ClNO ₂	FW : 217.68	DEA schedule :	1
			

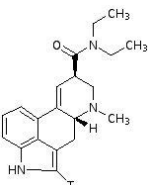
Catalog number : 7400-004			
Name : (+)-[6'- $^3\text{H}(\text{n})$]-3',4'-Methylenedioxyamphetamine hydrochloride; (+)-[6'- $^3\text{H}(\text{n})$]MDA			
Mol. formula : $\text{C}_{10}\text{H}_{14}\text{ClNO}_2$	FW : 215.68	DEA schedule :	1
Notes : Hallucinogen (tritium-labeled).			
			

Catalog number : 7400-005			
Name : [6- $^3\text{H}_2(\text{n})$]-3,4-Methylenedioxyamphetamine hydrochloride; [6- $^3\text{H}_2(\text{n})$]MDA			
Mol. formula : $\text{C}_{10}\text{H}_{14}\text{ClNO}_2$	FW : 217.68	DEA schedule :	1
			

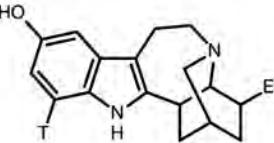
Catalog number : 7401-002		
Name : [2',6'- ³ H(n)]-3-Methoxy-4,5-methylenedioxyamphetamine hydrochloride; [2,6- ³ H(n)]MDA		
Mol. formula : C ₁₁ H ₁₆ ClNO ₃	FW : 249.72	DEA schedule : 1
		

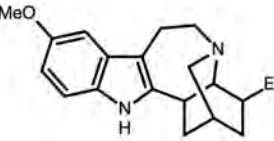
Catalog number : 7390-002		
Name : (±)-[2,6- ³ H ₂ (n)]-3,4,5-Trimethoxyamphetamine hydrochloride		
Mol. formula : C ₁₂ H ₂₀ ClNO ₃	FW : 265.76	DEA schedule : 1
		

Hallucinogens: Ergot alkaloids

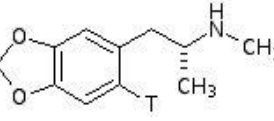
Catalog number : 7315-007		CASRN : 377756-22-4
Name : [2- ³ H]-(+)-Lysergic acid diethylamide; (+)-[3H]-LSD		
Mol. formula : C ₂₀ H ₂₅ N ₃ O	FW : 323.42	DEA schedule : 1
		

Hallucinogens: Ibogaine Class

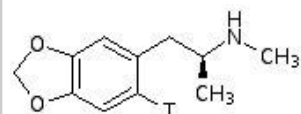
Catalog number : 7260-005		
Name : [12- ³ H]-Noribogaine		
Mol. formula : C ₁₉ H ₂₄ N ₂ O	FW : 296.41	DEA schedule : 0
Notes : <i>Ibogaine-like effect without tremors (tritium-labeled).</i>		
		

Catalog number : 7260-002		CASRN : 146560-35-2
Name : Tritium-labeled Ibogaine; [12- ³ H]Ibogaine		
Mol. formula : C ₂₀ H ₂₆ N ₂ O	FW : 312.44	DEA schedule : 1
Notes : <i>Hallucinogen (tritium-labeled).</i>		
		

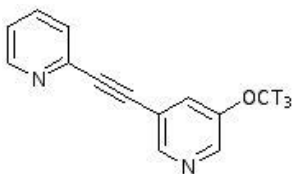
Hallucinogens: Methamphetamine Class

Catalog number : 7405-005		CASRN : 4764-17-4
Name : (-)-[6'- ³ H(n)]-3',4'-Methylenedioxymethamphetamine hydrochloride; (-)-[³ H]MDMA		
Mol. formula : C ₁₁ H ₁₆ ClNO ₂	FW : 231.71	DEA schedule : 1
Notes : <i>CNS stimulant; hallucinogen (tritium-labeled).</i>		
		

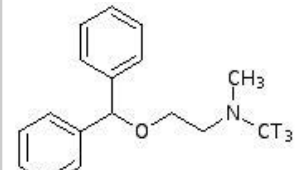
11 – Tritium Labeled

Catalog number : 7405-006			
Name : (+)-[6'- ³ H(n)]-3',4'-Methylenedioxymethamphetamine hydrochloride; (+)-[³ H]MDMA			
Mol. formula : C ₁₁ H ₁₆ ClNO ₂	FW : 231.71	DEA schedule : 1	
Notes : CNS stimulant; hallucinogen (tritium-labeled).			

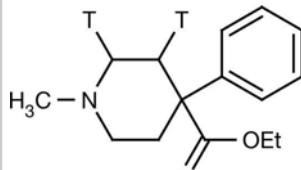
Miscellaneous: Glutamate Receptor Related

Catalog number : NOCD-058			
Name : 3-[³ H ₃]Methoxy-5-(pyridin-2-yl-ethynyl)pyridine			
Mol. formula : C ₁₃ H ₁₀ N ₂ O	FW : 216.26	DEA schedule : 0	
Notes : Tritium-labeled MPEP analog			

Miscellaneous: Histamine Receptor Related

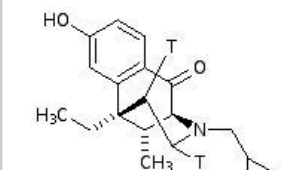
Catalog number : NOCD-063			
Name : [N-C ³ H ₃]Diphenhydramine			
Mol. formula : C ₁₇ H ₂₁ NO		FW : 261.38	DEA schedule : 0
			

Opioids: Meperidine Class

Catalog number : 9230-003			
Name : [2,3- ³ H ₂]Meperidine hydrochloride			
Mol. formula : C ₁₅ H ₂₂ ClNO ₂	FW : 287.81	DEA schedule : 2	

Opioids: Metazocine Class

Catalog number : 9240-003			
Name : [11,12- ³ H ₂](–)-Ethylketazocine			
Mol. formula : C ₁₉ H ₂₅ NO ₂		FW : 303.42	DEA schedule : 1

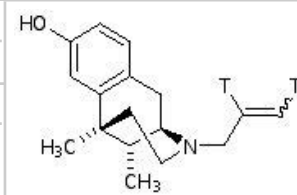


Catalog number : 9240-019

Name : (-)-[17,18-³H]N-AllylnormetazocineMol. formula : C₁₇H₂₃NO

FW : 261.39

DEA schedule : 0

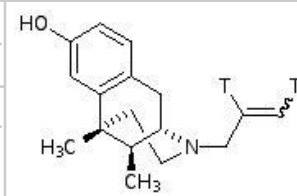


Catalog number : 9240-040

Name : (+)-[17,18-³H₂]N-AllylnormetazocineMol. formula : C₁₇H₂₃NO

FW : 261.39

DEA schedule : 0

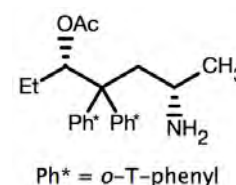
**Opioids: Methadone Class**

Catalog number : 9633-011

Name : (-)-[o,o'-³H₂(n)]-α-Acetyl-N,N-dinormethadol hydrochlorideMol. formula : C₂₁H₂₈ClNO₂

FW : 389.97

DEA schedule : 0

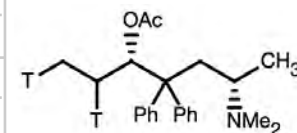


Catalog number : 9648-012

Name : (-)-[1,2-³H₂]α-AcetylmethadolMol. formula : C₂₃H₃₂ClNO₂

FW : 353.50

DEA schedule : 2

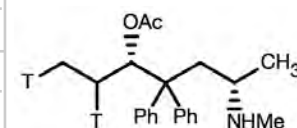


Catalog number : 9633-006

Name : (-)-[1,2-³H]α-Acetylnormethadol hydrochlorideMol. formula : C₂₃H₃₂ClNO₂

FW : 375.94

DEA schedule : 1

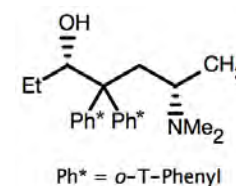


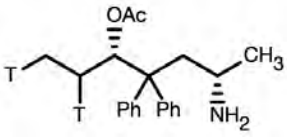
Catalog number : 9605-003

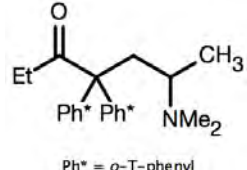
Name : (-)-[o,o'-³H₂(n)]α-Methadol hydrochlorideMol. formula : C₂₁H₂₉NO

FW : 347.93

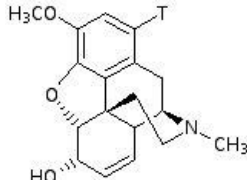
DEA schedule : 1

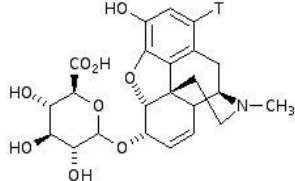
References : Portoghesi, PS; Williams DA *J Med Chem* 1969, 12, 839-44.

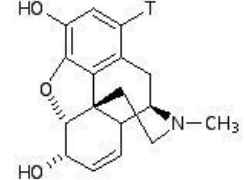
Catalog number : 9633-015		
Name : (-)-[1,2- ³ H ₂]α-Acetyl-N,N-dinormethadol hydrochloride		
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.9-2	DEA schedule : 0
		

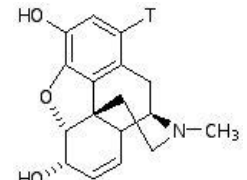
Catalog number : 9250-006		
Name : (±)-[o,o'- ³ H ₂ (n)]Methadone		
Mol. formula : C ₂₁ H ₂₇ NO	FW : 313.46	DEA schedule : 2
		

Opioids: Morphine Class

Catalog number : 9050-011		
Name : [1- ³ H]Codeine		
Mol. formula : C ₁₈ H ₂₁ NO ₃	FW : 301.37	DEA schedule : 2
		

Catalog number : 9300-014		
Name : [1- ³ H]Morphine-6-glucuronide		
Mol. formula : C ₂₃ H ₂₇ NO ₉	FW : 463.47	DEA schedule : 2
		

Catalog number : 9300-002		
Name : Tritium-labeled Morphine sulfate		
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 475.50	DEA schedule : 2
		

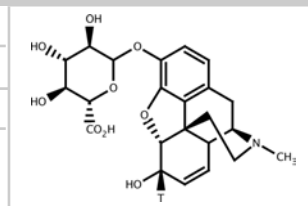
Catalog number : 9300-006		CASRN : 80573-75-7
Name : [1- ³ H(n)]Morphine		
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 287.35	DEA schedule : 2
		

Catalog number : 9300-011

Name : Morphine-(6-³H)-3-glucuronideMol. formula : C₂₃H₂₇NO₉

FW : 463.47

DEA schedule : 2

**Opioids: Orvinol Class**

Catalog number : 9064-002

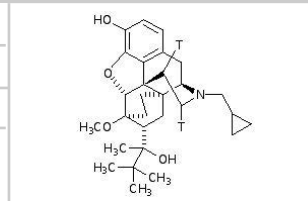
CASRN : 161772-95-8

Name : [15,16-³H₂]Buprenorphine hydrochlorideMol. formula : C₂₆H₃₈ClNO₄

FW : 508.11

DEA schedule : 5

Notes : Narcotic analgesic (tritium-labeled).

References : Robinson, SE *CNS Drug Rev* 2002, 8, 377-90.

Catalog number : 9064-003

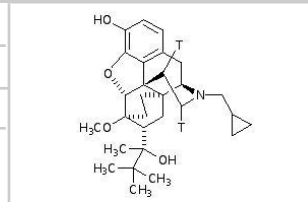
CASRN : 161772-95-8

Name : [15,16-³H₂]BuprenorphineMol. formula : C₂₉H₄₁NO₄

FW : 508.11

DEA schedule : 3

Notes : Narcotic analgesic (tritium-labeled).

References : Robinson, SE *CNS Drug Rev* 2002, 8, 377-90.

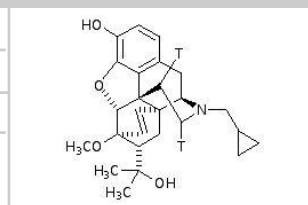
Catalog number : 9058-002

Name : [15,16-³H₂]DiprenorphineMol. formula : C₂₆H₃₆ClNO₄

FW : 429.58

DEA schedule : 2

Notes : (see footnotes 1 & 2 in Section C)



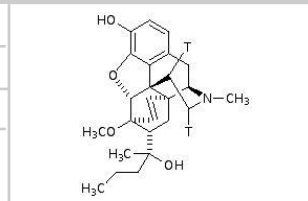
Catalog number : 9056-001

Name : [15,16-³H₂]EtorphineMol. formula : C₂₅H₃₃NO₄

FW : 429.58

DEA schedule : 1

Notes : (see footnotes 1 & 2 in Section C)

**Opioids: Oxymorphone Class**

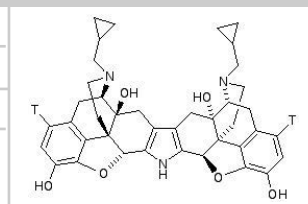
Catalog number : NOCD-084

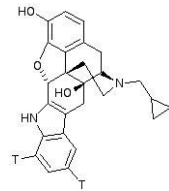
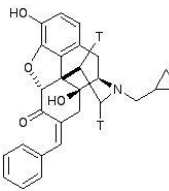
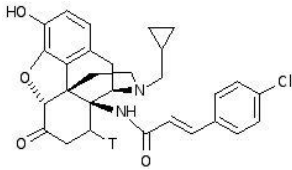
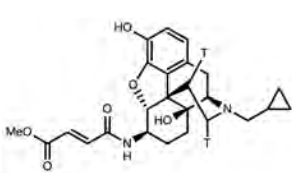
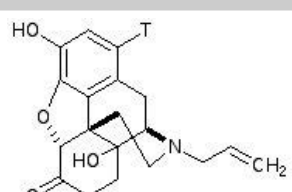
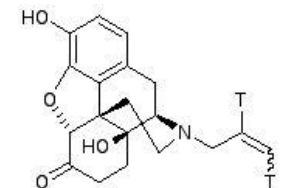
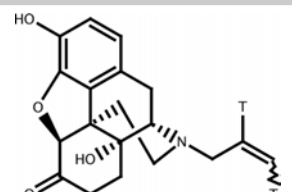
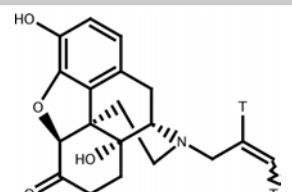
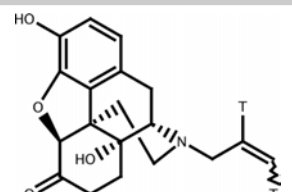
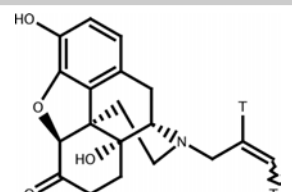
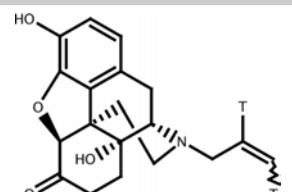
Name : [1,1'-³H(n)]Norbinaltorphimine; [³H]norBNIMol. formula : C₄₀H₄₃N₃O₆

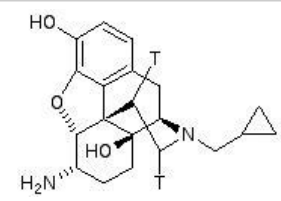
FW : 665.80

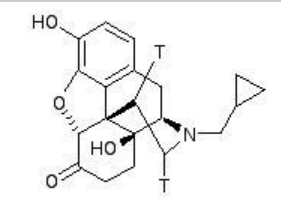
DEA schedule : 0

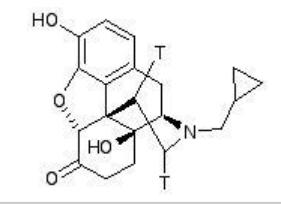
References : Birch, PJ; *et al. Eur J Pharmacol* 1987, 144, 405-8.
 Portoghese, PS; Lipkowski, AW; Takemori, AE *Life Sci* 1987, 40, 1287-92.

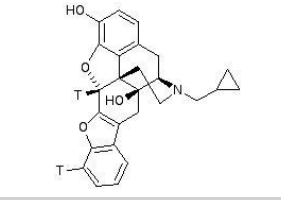


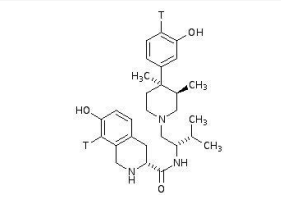
Catalog number : 9652-061			
Name : [5',7'- ³ H ₂]Naltrindole			
Mol. formula : C ₂₆ H ₂₆ N ₂ O ₃	FW : 418.51	DEA schedule : 0	
			
Catalog number : 9652-068			
Name : [15,16- ³ H]-7-Benzylidene-7-dehydronaltrexone; [³ H]BNTX			
Mol. formula : C ₂₇ H ₂₈ ClNO ₄	FW : 433.52	DEA schedule : 0	
References : Comer, SD; Burke, TF; Lewis, JW; Woods, JH <i>J Pharmacol Exp Ther</i> 1992 , 262, 1051-6.			
Catalog number : NOCD-079			
Name : Tritium-labeled Clocinnamox			
Mol. formula : C ₂₉ H ₂₉ ClN ₂ O ₄	FW : 507.01	DEA schedule : 0	
			
References : Comer, SD; Burke, TF; Lewis, JW; Woods, JH <i>J Pharmacol Exp Ther</i> 1992 , 262, 1051-6.			
Catalog number : 9333-012			
Name : [15,16- ³ H ₂]-6β-Funaltrexamine			
Mol. formula : C ₂₆ H ₃₃ ClN ₂ O ₆	FW : 458.53	DEA schedule : 2	
Notes : Irreversible μ-opioid receptor antagonist (tritium-labeled).			
References : Portoghese, PS; el Kouhen, R; Law, PY; Loh, HH; Le Bourdonnec, B <i>Farmaco</i> 2001 , 56, 191-6.			
Catalog number : 9652-031			
Name : (-)-[1- ³ H(n)]Naloxone			
Mol. formula : C ₁₉ H ₂₁ NO ₄	FW : 329.38	DEA schedule : 0	
			
Catalog number : 9652-035			
Name : (-)-[19,20- ³ H ₂]Naloxone			
Mol. formula : C ₁₉ H ₂₁ NO ₄	FW : 331.39	DEA schedule : 0	
Catalog number : 9652-039			
Name : (+)-[19,20- ³ H ₂]Naloxone			
Mol. formula : C ₁₉ H ₂₁ NO ₄	FW : 331.39	DEA schedule : 0	

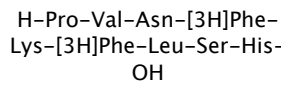
Catalog number : 9333-009		
Name : [15,16- ³ H ₂]-6β-Naltrexamine		
Mol. formula : C ₂₀ H ₂₆ N ₂ O ₃	FW : 346.45	DEA schedule : 2
		

Catalog number : 9652-012		
Name : [15,16- ³ H ₂]Naltrexone		
Mol. formula : C ₂₀ H ₂₃ NO ₄	FW : 345.42	DEA schedule : 0
		

Catalog number : 9652-013		
Name : [15,16- ³ H ₂]Naltrexone hydrochloride		
Mol. formula : C ₂₀ H ₂₄ ClNO ₄	FW : 381.88	DEA schedule : 0
		

Catalog number : 9652-065		
Name : Tritium-labeled Naltriben		
Mol. formula : C ₂₆ H ₂₅ NO ₄	FW : 419.50	DEA schedule : 0
Notes : Selective δ-opioid receptor antagonist (tritium-labeled).		
References : Sofuoglu, M; Portoghese, PS; Takemori, AE <i>J Pharmacol Exp Ther</i> 1991 , 257, 676-80.		
		

Opioids: Phenylpiperidine Class			
Catalog number : NOCD-059			
Name : [³ H]JDTic			
Mol. formula : C ₂₈ H ₃₉ N ₃ O ₃	FW : 469.64	DEA schedule : 0	
Notes : Selective kappa-opioid antagonist (tritium-labeled).			
References : Thomas, JB; <i>et al.</i> <i>J Med Chem</i> 2001 , 44, 2687-90.			

Peptides: Cannabinoid-related			
Catalog number : MPSP-096			
Name : [³ H ₂]Hemopressin			
Mol. formula : C ₅₃ H ₇₇ N ₁₃ O ₁₂	FW : 1092.3		
Notes : Radiolabeled hemopressin (MPSP-90; PEPT-053).			

H-Pro-Val-Asn-[3H]Phe-Lys-[3H]Phe-Leu-Ser-His-OH	
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Catalog number : MPSP-091			H-[3H2]Pro-Val-Asn-[3H]Phe-Lys-[3H]Phe-Leu-Ser-His-OH
Name : [³ H ₄]Hemopressin			
Mol. formula : C ₅₃ H ₇₇ N ₁₃ O ₁₂		FW : 1096.3	
Notes : Radiolabeled hemopressin (MPSP-90; PEPT-053).			
Catalog number : MPSP-097			H-Pro-Val-Asn-[3H]Phe-Lys-Leu-Leu-Ser-His-OH
Name : [³ H]Leu ⁶ -Hemopressin			
Mol. formula : C ₅₀ H ₇₉ N ₁₃ O ₁₂		FW : 1056.3	
Notes : Radiolabeled Leu ⁶ -Hemopressin (PEPT-054).			
Catalog number : MPSP-093			H-Pro-Val-Asn-Phe-Lys-Phe-[3H2]Tyr-OH
Name : [³ H ₂]Tyr ⁷ -Hemopressin (1-6)			
Mol. formula : C ₄₇ H ₆₁ N ₉ O ₁₀ H ₂		FW : 918.1	
Notes : Radioligand for MPSP-092.			
Peptides: Opioid			
Catalog number : MPSP-014			H-d-Phe[3H]-c[Cys-Tyr-d-Trp-Arg-Thr-Pen]-Thr-NH ₂
Name : [³ H]CTAP			
Mol. formula : C ₅₁ H ₆₈ N ₁₃ O ₁₁ S ₂₃ H		FW : 1105.0	
Notes : Radioactive ligand for MPSP-013			
References : Abbruscato, TJ; <i>et al. J Pharmacol Exp Ther</i> 1997 , 280, 402-9.			
Catalog number : MPSP-007			H-Tyr[3H2]-d-Ala-Gly-Phe-d-Leu-OH
Name : [³ H ₂]DADLE			
Mol. formula : C ₂₉ H ₃₇ N ₅ O ₇ H ₂		FW : 573.7	
Notes : Tritiated DADLE			
References : Luciano, MG; <i>et al. Brain Res Bull</i> 1981 , 7, 677-82.			
Catalog number : MPSP-035			H-Tyr[3H2]-d-Ala-Gly-Phe-Leu-Cys-OH
Name : [³ H ₂]DALCE			
Mol. formula : C ₃₃ H ₄₄ N ₆ O ₁₀ S ₃ H ₂		FW : 677.0	
Notes : Radioactive ligand for MPSP-034			

Catalog number : MPSP-028			H-Tyr[3H2]-d-Arg-Phe-Lys-NH2
Name : [³ H ₂]DALDA			
Mol. formula : C ₃₀ H ₄₃ N ₉ O ₅₃ H ₂	FW : 615.8		
Notes : <i>Radioactive ligand for MPSP-027</i>			
Catalog number : MPSP-012			H-Tyr[3H2]-d-Ala-Gly-Nα-Me-Phe-Gly-ol
Name : [³ H ₂]DAMGO			
Mol. formula : C ₂₆ H ₃₃ N ₅ O ₆₃ H ₂	FW : 517.7		
Notes : <i>Radioactive ligand for MPSP-011</i>			
References : Zajac, JM; Roques BP <i>Life Sci</i> 1983 , 33 Suppl 1, 155-8.			
Catalog number : MPSP-031			H-Tyr[3H2]-d-Ala-Phe-Asp-Val-Val-Gly-NH2
Name : [³ H ₂]Deltorphan I			
Mol. formula : C ₃₇ H ₅₀ N ₈ O ₁₀₃ H ₂	FW : 772.9		
Notes : <i>Radioactive ligand for MPSP-030</i>			
References : Erspamer, V; et al. <i>Proc Natl Acad Sci USA</i> 1989 , 86, 5188.			
Catalog number : MPSP-037			H-Tyr[3H2]-d-Ala-Phe-Glu-Val-Val-Gly-NH2
Name : [³ H ₂]Deltorphan II			
Mol. formula : C ₃₈ H ₅₂ N ₈ O ₁₀₃ H ₂	FW : 786.9		
Notes : <i>Radioactive ligand for MPSP-036</i>			
References : Erspamer, V; et al. <i>Proc Natl Acad Sci USA</i> 1989 , 86, 5188.			
Catalog number : MPSP-002			H-Tyr[3H2]-c[d-Pen-Gly-Phe-d-Pen]-OH
Name : [³ H ₂]DPDPE			
Mol. formula : C ₃₀ H ₃₇ N ₇ O ₅₂₃ H ₂	FW : 649.8		
Notes : <i>Radioactive ligand for MPSP-001</i>			
References : Cotton, R; et al. <i>Eur J Pharmacol</i> 1984 , 97, 331-2.			
Catalog number : MPSP-045			H-Gly-Gly-Phe[3H]-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH
Name : [³ H ₂]p-Cl-Phe-DPDPE			
Mol. formula : C ₃₀ H ₃₆ ClN ₅ O ₇₂₃ H ₂	FW : 684.4		
Notes : <i>Radioactive ligand for MPSP-044</i>			
Catalog number : MPSP-004			H-Tyr[3H2]-d-Ser-Gly-Phe-Leu-Thr-OH
Name : [³ H ₂]DSLET			
Mol. formula : C ₃₃ H ₄₄ N ₆ O ₁₀₃ H ₂	FW : 690.9		
Notes : <i>Radioactive ligand for MPSP-003</i>			
References : David, M; et al. <i>Eur J Pharmacol</i> 1982 , 78, 385-7.			

11 – Tritium Labeled

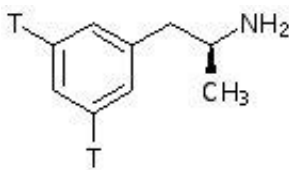
Catalog number : MPSP-033			H-Tyr[3H2]-d-Ser(But)-Gly-Phe-Leu-Thr-OH
Name : [³ H ₂]DSTBULET			
Mol. formula : C ₃₃ H ₄₄ N ₆ O ₁₀₃ H ₂	FW : 746.9		
Notes : <i>Radioactive ligand for MPSP-032</i>			
References : Delay-Goyet, P <i>NIDA Res Mono</i> 1986 , 75, 197-200.			
Catalog number : MPSP-020			H-Tyr[3H2]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-OH
Name : [³ H ₂]Dynorphin (1-11)			
Mol. formula : C ₆₃ H ₁₀₁ N ₂₁ O ₁₃₃ H ₂	FW : 1366.7		
Notes : <i>Radioactive ligand for MPSP-019</i>			
References : Chavkin, C; Goldstein, A <i>Proc Natl Acad Sci USA</i> 1981 , 78, 6543-7.			
Catalog number : MPSP-018			H-Tyr[3H2]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-NH2
Name : [³ H ₂]Dynorphin (1-13) amide			
Mol. formula : C ₇₅ H ₁₂₅ N ₂₅ O ₁₄₃ H ₂	FW : 1607.2		
Notes : <i>Radioactive ligand for MPSP-017</i>			
Catalog number : MPSP-022			H-Tyr[3H2]-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-OH
Name : [³ H ₂]Dynorphin (1-9)			
Mol. formula : C ₅₂ H ₈₂ N ₁₈ O ₁₁₃ H ₂	FW : 1141.5		
Notes : <i>Radioactive ligand for MPSP-021</i>			
References : Robson, LE; <i>et al. Life Sci</i> 1983 , 33 Suppl 1, 283-6. Wood, MS; Rodriguez FD; Traynor JR <i>Neuropharmacology</i> 1989 , 28, 1041-6.			
Catalog number : MPSP-041			H-Gly-Gly-Phe[3H]-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH
Name : [³ H]Dynorphin (2-17)			
Mol. formula : C ₉₀ H ₁₅₅ N ₃₀ O ₂₁₃ H	FW : 1986.8		
Notes : <i>Radioactive ligand for MPSP-040</i>			
Catalog number : MPSP-074			H-Tyr[3H2]-Pro-Phe-Phe-NH2
Name : [³ H ₂]Endomorphin-2			
Mol. formula : C ₃₂ H ₃₅ N ₅ O ₅₃ H ₂	FW : 575.7		
Notes : <i>Radioactive ligand for MPSP-073</i>			
References : Spetea, M; <i>et al. Biochem Biophys Res Commun</i> 1998 , 250, 720-5.			
Catalog number : MPSP-025			H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-[3H2]Tyr-Lys-Lys-Gly-Glu-OH
Name : [³ H ₂]β-Endorphin			
Mol. formula : C ₁₅₈ H ₂₄₉ N ₃₉ O ₄₆ S ₃ H ₂	FW : 3469.6		
Notes : <i>Radioactive ligand for MPSP-024</i>			
References : Li, CH; <i>et al. Proc Natl Acad Sci USA</i> 1980 , 77, 2303-4.			

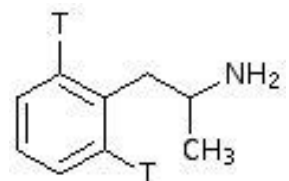
Catalog number : MPSP-081		
Name : [³ H ₂]Leu-Enkephalin-acid		H-[3H2]Tyr-Gly-Gly-Phe-Leu-OH
Mol. formula : C ₂₈ H ₃₇ N ₅ O ₇ FW : 559.3		
Notes : <i>Radioactive ligand for MPSP-080.</i>		
Catalog number : MPSP-079		
Name : [³ H ₂]Kaffiralin-1		H-[3H]d-Phe-[3H]d-Phe-d-Ile-d-Arg-NH2
Mol. formula : C ₃₀ H ₄₂ N ₈ O ₄₃ H ₂ FW : 584.7		
Notes : <i>Radioactive ligand for MPSP-076</i>		
References : Dooley, CT; <i>et al. J Biol Chem</i> 1998 , 273, 18848-56.		
Catalog number : MPSP-077		
Name : [³ H ₂]Kaffiralin-2		H-[3H]d-Phe-[3H]d-Phe-d-Nle-d-Arg-NH2
Mol. formula : C ₃₀ H ₄₂ N ₈ O ₄₃ H ₂ FW : 584.7		
Notes : <i>Radioactive ligand for MPSP-076.</i>		
Catalog number : MPSP-059		
Name : [³ H ₂]Orphanin FQ; [³ H ₂]Nociceptin		H-Phe[3H]-Gly-Gly-Phe [3H]-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Leu-Ala-Asn-Gln-OH
Mol. formula : C ₇₉ H ₁₂₇ N ₂₇ O ₂₂₃ H ₂ FW : 1813.4		
Notes : <i>Radioactive ligand for MPSP-058</i>		
References : Dooley, CT; Houghten RA <i>Life Sci</i> 1996 , 59, PL23-9.		
Catalog number : MPSP-082		
Name : [³ H ₄]Tyr ¹⁴ Orphanin FQ		H-Phe[3H]-Gly-Gly-Phe [3H]-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-Tyr[3H2]-Ala-Asn-Gln-OH
Mol. formula : C ₈₂ H ₁₂₃ N ₂₇ O ₂₃₃ H ₄ FW : 1867.1		
Notes : <i>Radioactive ligand for MPSP-058</i>		
References : Dooley, CT; <i>et al. Life Science</i> 1996 , 59, PL23-PL29.		
Catalog number : MPSP-095		
Name : [³ H ₄]Orphanin FQ		H-[3H]Phe-Gly-Gly-[3H]Phe-Thr-Gly-Ala-Arg-Lys-Ser-Ala-Arg-Lys-[3H2]Leu-Ala-Asn-Gln-OH
Mol. formula : C ₇₉ H ₁₂₅ N ₂₇ O ₂₂₃ H ₄ FW : 1817.4		
Notes : <i>Radioactive ligand for MPSP-058.</i>		
Catalog number : MPSP-010		
Name : [³ H ₂]PLO17		H-Tyr[3H2]-Pro-Nα-Me-Phe-d-Pro-NH2
Mol. formula : C ₂₉ H ₃₅ N ₅ O ₅₃ H ₂ FW : 539.6		
Notes : <i>Radioactive ligand for MPSP-009.</i>		
References : Hawkins, KN; <i>et al. Eur J Pharmacol</i> 1987 , 133, 351-2.		

Catalog number : MPSP-039		H-Tyr[3H2]-Tic-Phe-Phe-OH
Name : [³ H ₂]Tipp-Enkephalin		
Mol. formula : C ₃₇ H ₃₆ N ₄ O ₆₃ H ₂	FW : 638.8	
Notes : <i>Radioactive ligand for MPSP-038</i>		
References : Nevin, ST; <i>et al. Life Sci</i> 1993 , 53, PL57-62.		

Stimulants: Amphetamine Class

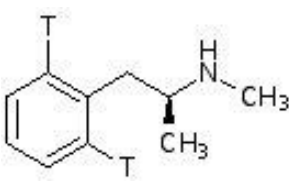
Catalog number : 1100-009			
Name : (+)-(S)-[3,5- ³ H(n)]Amphetamine			
Mol. formula : C ₉ H ₁₃ N		FW : 139.22	DEA schedule : 2
Notes : <i>CNS stimulant (tritium-labeled).</i>			



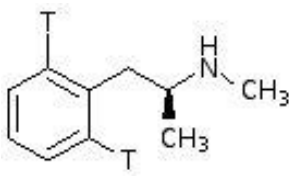
Catalog number : 1100-005		
Name : (±)-[2',6'- ³ H ₂]Amphetamine; 2,6-Tritioamphetamine		
Mol. formula : C ₉ H ₁₃ N	FW : 135.21	DEA schedule : 2
		

Stimulants: Methamphetamine Class

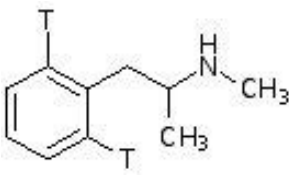
Catalog number : 1105-004			
Name : (+)-[2',6'- ³ H(n)]Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN		FW : 185.69	DEA schedule : 2
Notes : CNS stimulant (tritium-labeled).			

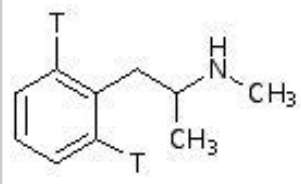


Catalog number : 1105-008			
Name : (+)-[2,6- ³ H(n)]Methamphetamine			
Mol. formula : C ₁₀ H ₁₅ N		FW : 153.25	DEA schedule : 2
Notes : CNS stimulant (tritium-labeled).			

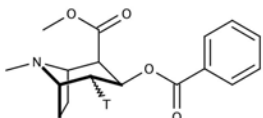


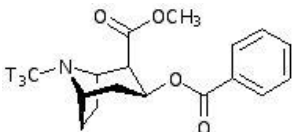
Catalog number : 1105-006			
Name : (±)-[2',6'- ³ H(n)]Methamphetamine hydrochloride			
Mol. formula : C ₁₀ H ₁₆ ClN		FW : 189.71	DEA schedule : 2
Notes : CNS stimulant (tritium-labeled).			



Catalog number : 1105-007			
Name : (±)-[2,6- ³ H(n)]Methamphetamine			
Mol. formula : C ₁₀ H ₁₅ N	FW : 153.25	DEA schedule : 2	
Notes : <i>CNS stimulant (tritium-labeled).</i>			

Stimulants: Tropane Class

Catalog number : 9041-004		CASRN : 85438-94-4	
Name : (-)-[4- ³ H]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 303.35	DEA schedule : 2	

Catalog number : 9041-003			
Name : (-)-[N-C ³ H ₃]Cocaine			
Mol. formula : C ₁₇ H ₂₁ NO ₄		FW : 309.38	DEA schedule : 2
			



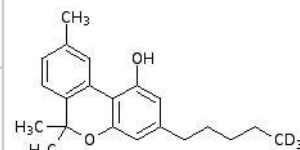
Cannabinoids: Tetrahydrocannabinol Class

Catalog number : 7360-014

Name : [5'-²H₃]CannabinolMol. formula : C₂₁H₂₆O₂

FW : 310.43

DEA schedule : 1

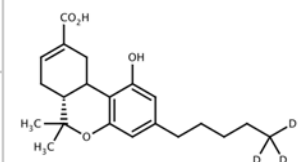
Notes : *Inactive constituent of cannabis (deuterium-labeled).*

Catalog number : 7370-038

Name : [5'-²H₃]-11-*nor*-Δ⁸-THC-9-carboxylic acidMol. formula : C₂₁H₂₈O₄

FW : 347.46

DEA schedule : 1



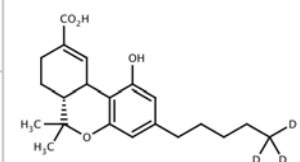
Catalog number : 7370-003

CASRN : 113269-48-0

Name : [5'-²H₃]9-Carboxy-11-*nor*-Δ⁹-THCMol. formula : C₂₁H₂₈O₄

FW : 347.46

DEA schedule : 1

Notes : *Urinary metabolite of THC (deuterium-labeled).*

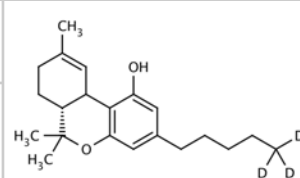
Catalog number : 7370-005

CASRN : 81586-39-2

Name : Deuterium-labeled Δ⁹-THCMol. formula : C₂₁H₃₀O₂

FW : 317

DEA schedule : 1

Notes : *Hallucinogen; psychotropic; analgesic (deuterium-labeled).*

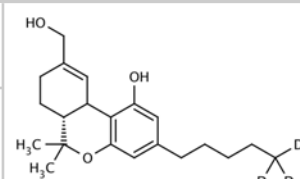
Catalog number : 7370-010

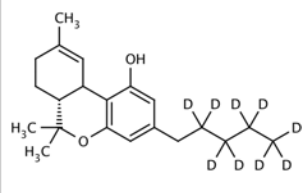
CASRN : 130410-26-3

Name : [5'-²H₃]-11-Hydroxy-Δ⁹-THCMol. formula : C₂₁H₃₀O₃

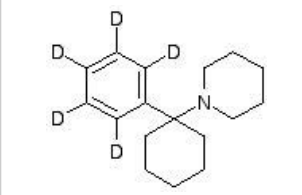
FW : 333

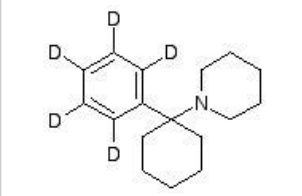
DEA schedule : 1

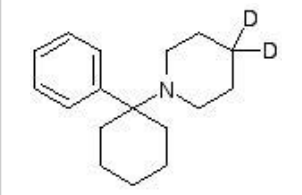


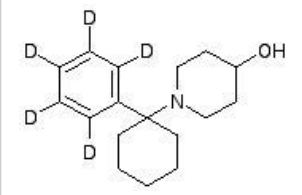
Catalog number : 7370-025		
Name : [2',2',3',3',4',4',5',5',5'- ² H ₉]Δ ⁹ -THC		
Mol. formula : C ₂₁ H ₃₀ O ₂	FW : 323.52	DEA schedule : 1
Notes : <i>Hallucinogen; psychotropic; analgesic (deuterium-labeled).</i>		
		

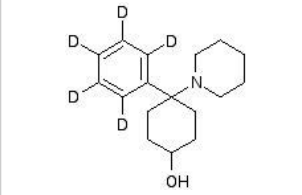
Dissociatives: Phencyclidine Class

Catalog number : 7471-003		
Name : [Phenyl-2,3,4,5,6- ² H ₅]Phencyclidine; [Phenyl-2,3,4,5,6- ² H ₅]PCP		
Mol. formula : C ₁₇ H ₂₅ N	FW : 248.42	DEA schedule : 2
		

Catalog number : 7471-006		
Name : [Phenyl- ² H ₅]Phencyclidine hydrochloride; [Phenyl- ² H ₅]PCP HCl		
Mol. formula : C ₁₇ H ₂₆ ClN	FW : 284.89	DEA schedule : 2
		

Catalog number : 7471-008		
Name : [Piperidino-4,4- ² H ₂]Phencyclidine hydrochloride; [Piperidino-4,4- ² H ₂]PCP		
Mol. formula : C ₁₇ H ₂₆ ClN	FW : 281.86	DEA schedule : 2
		

Catalog number : 7471-082		
Name : [Phenyl- ² H ₅]-1-(1-Phenylcyclohexyl)-4-hydroxypiperidine		
Mol. formula : C ₁₇ H ₂₅ NO	FW : 264.43	DEA schedule : 1
		

Catalog number : 7471-084		
Name : [Phenyl- ² H ₅]-1-(1-Phenyl-4-hydroxycyclohexyl)piperidine (<i>cis/trans</i>)		
Mol. formula : C ₁₇ H ₂₅ NO	FW : 264.43	DEA schedule : 1
		

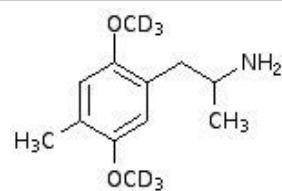
Hallucinogens: Amphetamine Class

Catalog number : 7395-004

Name : [OC²H₃]-2,5-Dimethoxy-4-methylamphetamine HCl; [OC²H₃]DOMMol. formula : C₁₂H₂₀ClNO₂

FW : 251.78

DEA schedule : 1

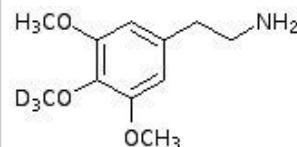
**Hallucinogens: Phenethylamine Class**

Catalog number : 7381-002

Name : [4'-OC²H₃]Mescaline hydrochlorideMol. formula : C₁₁H₁₈ClNO₃

FW : 247.72

DEA schedule : 1

**Nicotinics: Nicotine Class**

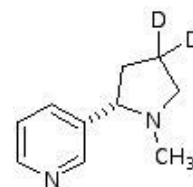
Catalog number : NICT-015

CASRN : 121949-85-7

Name : (-)-Nicotine-4,4-d₂ (-)-di-*p*-toluoyl-L-tartrateMol. formula : C₃₀H₃₂N₂O₈

FW : 550.60

DEA schedule : 0

References : Jacob, PJ *Labelled Comp Radiopharm* 1988, 25, 1117-28.**Opioids: Fentanyl Class**

Catalog number : 9801-008

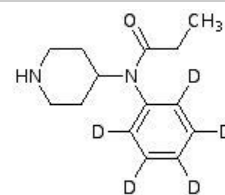
CASRN : 1211527-23-9

Name : [Phenyl-²H₅]N-4-Piperidyl-N-phenylpropanamideMol. formula : C₁₄H₂₀N₂O

FW : 237.36

DEA schedule : 2

Notes : Precursor for the synthesis of mass-labeled fentanyl analogs.

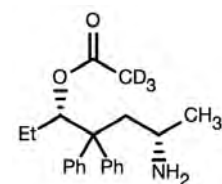
**Opioids: Methadone Class**

Catalog number : 9633-012

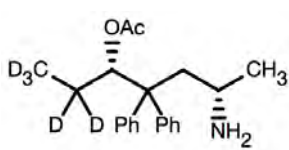
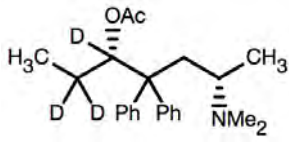
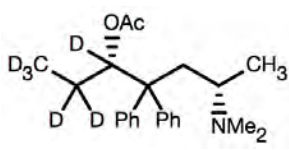
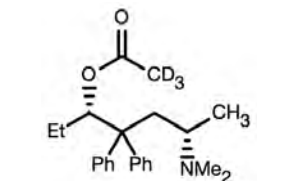
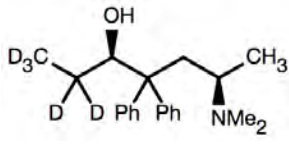
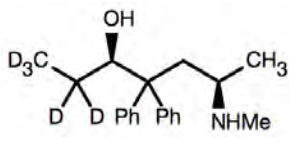
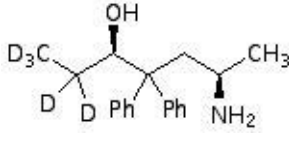
Name : (-)-[Acetyl-²H₃]α-Acetyl-N,N-dinormethadol hydrochlorideMol. formula : C₂₁H₂₈ClNO₂

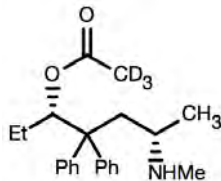
FW : 361.92

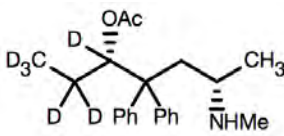
DEA schedule : 0

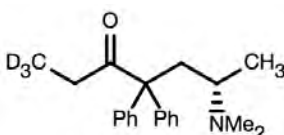


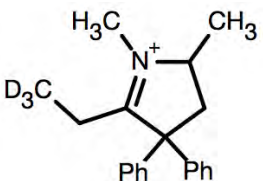
12 – Deuterium Labeled

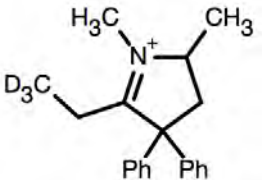
Catalog number : 9633-014			
Name : (-)-[1,1,1,2,2,3- ² H ₆]α-Acetyl-N,N-dinormethadol hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 361.92	DEA schedule : 0	
Catalog number : 9648-016			
Name : (-)-[2,2,3- ² H ₃]α-Acetylmethadol hydrochloride			
Mol. formula : C ₂₃ H ₃₂ ClNO ₂	FW : 353.50	DEA schedule : 2	
Catalog number : 9648-010			
Name : (-)-[1,1,1,2,2,3- ² H ₆]α-Acetylmethadol hydrochloride			
Mol. formula : C ₂₄ H ₃₄ ClNO	FW : 389.97	DEA schedule : 2	
Catalog number : 9648-011			
Name : (-)-[Acetyl- ² H ₃]α-acetylmethadol hydrochloride			
Mol. formula : C ₂₁ H ₂₈ ClNO ₂	FW : 389.97	DEA schedule : 2	
Catalog number : 9605-010			
Name : [1,1,1,2,2- ² H ₅]α-Methadol hydrochloride			
Mol. formula : C ₂₁ H ₃₀ ClNO	FW : 347.93	DEA schedule : 1	
References : Portoghesi, PS; Williams DA <i>J Med Chem</i> 1969 , <i>12</i> , 839-44.			
Catalog number : 9605-021			
Name : [1,1,1,2,2- ² H ₅]α-Normethadol perchlorate			
Mol. formula : C ₂₀ H ₂₈ ClNO ₅	FW : 397.90	DEA schedule : 1	
Catalog number : 9605-031			
Name : [1,1,1,2,2- ² H ₅]α-N,N-Dinormethadol maleate			
Mol. formula : C ₁₉ H ₂₅ NO	FW : 399.49	DEA schedule : 1	

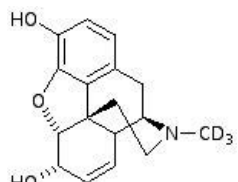
Catalog number : 9633-003		
Name : (-)-[Acetyl- ² H ₃]α-Acetylnormethadol hydrochloride		
Mol. formula : C ₂₂ H ₃₀ ClNO ₂	FW : 375.94	DEA schedule : 1
		

Catalog number : 9633-004		
Name : (-)-[1,1,1,2,2,3- ² H ₆]α-Acetylnormethadol hydrochloride		
Mol. formula : C ₂₃ H ₂₂ ClNO ₂	FW : 375.94	DEA schedule : 1
		

Catalog number : 9250-011		
Name : (+)-[1,1,1- ² H ₃]Methadone hydrochloride		
Mol. formula : C ₂₁ H ₂₈ ClNO	FW : 348.92	DEA schedule : 2
		

Catalog number : 9250-027		
Name : [Ethyl-2',2',2'- ² H ₃]-1,5-Dimethyl-3,3-diphenyl-2-ethylpyrrolinium perchlorate		
Mol. formula : C ₂₀ H ₂₅ ClNO ₄	FW : 384.91	DEA schedule : 0
		

Catalog number : 9250-032		
Name : [Ethyl-2',2',2'- ² H ₃]-3,3-Diphenyl-2-ethyl-5-methyl-1-pyrroline hydrochloride		
Mol. formula : C ₂₀ H ₂₅ ClN	FW : 302.86	DEA schedule : 0
		

Opioids: Morphine Class		
Catalog number : 9300-005		
CASRN : 67293-88-3		
Name : [N-C ² H ₃]Morphine		
Mol. formula : C ₁₇ H ₁₉ NO ₃	FW : 288.36	DEA schedule : 2
		

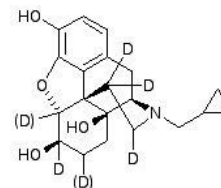
Opioids: Oxymorphone Class

Catalog number : 9652-057

Name : [5,6,7,15,15,16-²H₆]-6α-NaltrexolMol. formula : C₂₀H₂₅NO₄

FW : 349.45

DEA schedule : 0

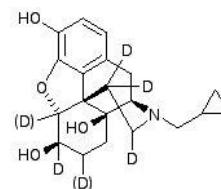


Catalog number : 9652-052

Name : [5,6,7,15,15,16-²H₆]-6β-Naltrexol hydrochlorideMol. formula : C₂₀H₂₆ClNO₄

FW : 385.91

DEA schedule : 0

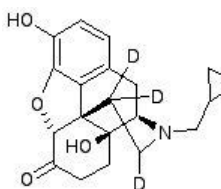


Catalog number : 9652-014

Name : [15,15,16-²H₃]NaltrexoneMol. formula : C₂₀H₂₃NO₄

FW : 344.42

DEA schedule : 0

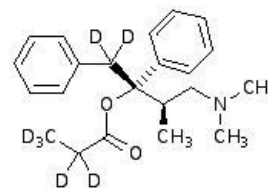
**Opioids: Propoxyphene Class**

Catalog number : 9273-004

Name : [²H₇]Propoxyphene hydrochlorideMol. formula : C₂₂H₂₉NO₂

FW : 346.51

DEA schedule : 2

**Sedatives: Methaqualone Class**

Catalog number : 2565-001

CASRN : 72-44-6

Name : [²H₄]MethaqualoneMol. formula : C₁₆H₁₄N₂O

FW : 254.32

DEA schedule : 1



Stimulants: Amphetamine Class

Catalog number : 1100-004

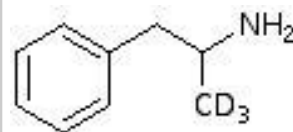
CASRN : 38875-35-3

Name : (±)-[1,1,1-²H₃]Amphetamine sulfateMol. formula : C₉H₁₃N

FW : 374.53

DEA schedule : 2

References : Cho, AK; *et al.*., *Anal Chem* **1973**, *45*, 570-4.
 Valtier, S; Cody, JT *J Anal Toxicol* **1995**, *19*, 375-80.

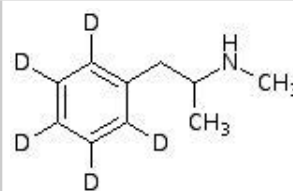
**Stimulants: Methamphetamine Class**

Catalog number : 1105-002

Name : (±)-[2',3',4',5',6'-²H₅]Methamphetamine hydrochlorideMol. formula : C₁₀H₁₆ClN

FW : 190.72

DEA schedule : 2

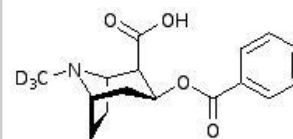
**Stimulants: Tropane Class**

Catalog number : 9180-003

Name : (-)-[N-C²H₃]BenzoylecgonineMol. formula : C₁₆H₁₉NO₄

FW : 292.34

DEA schedule : 2

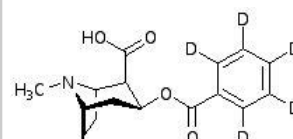


Catalog number : 9180-011

Name : (-)-[Phenyl-²H₅]BenzoylecgonineMol. formula : C₁₆H₁₉NO₄

FW : 294.36

DEA schedule : 2

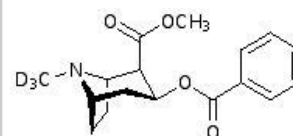


Catalog number : 9041-006

Name : (-)-[N-C²H₃]CocaineMol. formula : C₁₇H₂₁NO₄

FW : 306.37

DEA schedule : 2

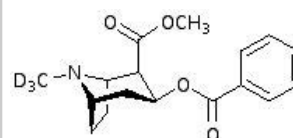


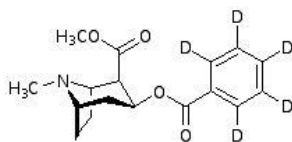
Catalog number : 9041-007

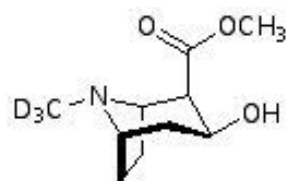
Name : (-)-[N-C²H₃]Cocaine hydrochlorideMol. formula : C₁₇H₂₂ClNO₄

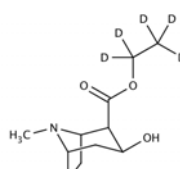
FW : 342.83

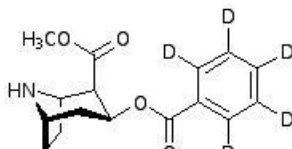
DEA schedule : 2



Catalog number : 9041-009		
Name : (-)-[Phenyl- ² H ₅]Cocaine		
Mol. formula : C ₁₇ H ₂₁ NO ₄	FW : 344.84	DEA schedule : 2
		

Catalog number : 9180-007		
Name : [N-C ² H ₃]Ecgonine methyl ester hydrochloride		
Mol. formula : C ₁₀ H ₁₈ ClNO ₃	FW : 238.73	DEA schedule : 2
		

Catalog number : 9180-021		CASRN : 259526-73-3
Name : Ecgonine (1,1,2,2,2- ² H ₅)ethyl ester perchlorate		
Mol. formula : C ₁₁ H ₁₄ D ₅ NO ₃ • HClO ₄	FW : 318.76	DEA schedule : 2
		

Catalog number : 9041-017		
Name : (-)-[Phenyl- ² H ₅]Norcocaine fumarate		
Mol. formula : C ₂₀ H ₂₃ NO ₈	FW : 410.43	DEA schedule : 2
		

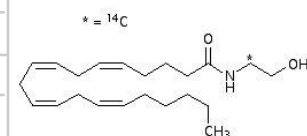
Cannabinoids: Fatty Acid Derivatives (Anandamides)

Catalog number : NOCD-007

Name : Arachidonyl[1-¹⁴C]ethanolamideMol. formula : C₂₃H₃₇NO₂

FW : 361.56

DEA schedule : 0

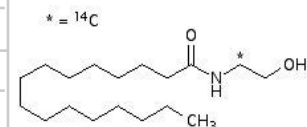
**Cannabinoids: Fatty Acid Derivatives (Palmitoyl amides)**

Catalog number : NOCD-005

Name : Palmitoyl[1-¹⁴C]ethanolamideMol. formula : C₁₈H₃₇NO₂

FW : 299.49

DEA schedule : 0

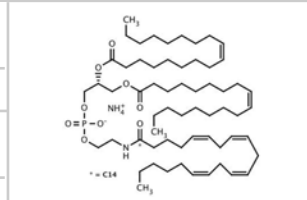
Notes : *Cannabinoid CB2 receptor agonist (carbon-labeled).***Cannabinoids: Precursors, Biosynthetic**

Catalog number : NOCD-009

Name : N-[1-¹⁴C]-Arachidonyl-1,2-dioleoyl-*sn*-glycero-3-phosphoethanolamine ammonium saltMol. formula : C₆₁H₁₁₁N₂O₉P

FW : 1047.52

DEA schedule : 0

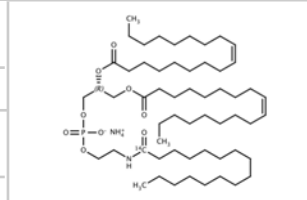
Notes : *Putative biosynthetic precursor of endogenous cannabinoids (carbon-labeled).*References : Morishita, J; *et al. J Neurochem* 2005, 94, 753-62.

Catalog number : NOCD-000

Name : N-[1-¹⁴C]-Palmitoyl-1,2-dioleoyl-*sn*-glycero-3-phosphoethanolamine ammonium saltMol. formula : C₅₇H₁₁₁N₂O₉P

FW : 999.47

DEA schedule : 0

Notes : *Putative biosynthetic precursor of endogenous cannabinoids (carbon-labeled).*References : Morishita J; *et al. J Neurochem* 2005, 94, 753-62.

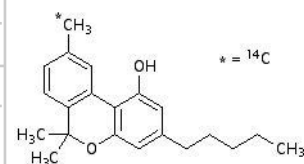
Cannabinoids: Tetrahydrocannabinol Class

Catalog number : 7360-015

Name : [11-¹⁴C]CannabinolMol. formula : C₂₀H₂₆O₂

FW : 310.43

DEA schedule : 1

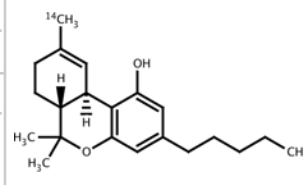
Notes : *Inactive constituent of cannabis (carbon-labeled).*

Catalog number : 7370-033

Name : [11-¹⁴C]Δ⁹-THCMol. formula : C₂₁H₃₀O₂

FW : 316.45

DEA schedule : 1

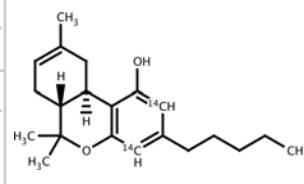
Notes : *Hallucinogen; psychotropic; analgesic (carbon-labeled).*

Catalog number : 7370-032

Name : [2,4-¹⁴C]Δ⁸-THCMol. formula : C₂₁H₃₀O₂

FW : 318.45

DEA schedule : 1

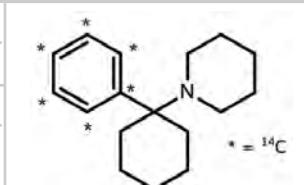
Notes : *Hallucinogen; psychotropic; analgesic (carbon-labeled).***Dissociatives: Phencyclidine Class**

Catalog number : 7471-002

Name : [¹⁴C]Phencyclidine HBr; [¹⁴C]PCPMol. formula : C₁₈H₂₈BrN

FW : 523.53

DEA schedule : 2

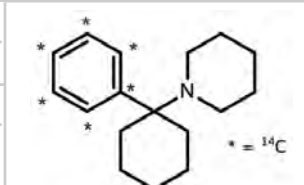


Catalog number : 7471-007

Name : [Phenyl-U-¹⁴C]-1-(1-Phenylcyclohexyl)Piperidine; [Phenyl-U-¹⁴C]PCPMol. formula : C₁₇H₂₅N

FW : 245.39

DEA schedule : 2

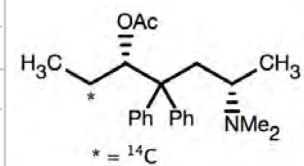
**Opioids: Methadone Class**

Catalog number : 9648-013

Name : (-)-[2-¹⁴C]-α-Acetylmethadol hydrochlorideMol. formula : C₂₃H₃₂ClNO₂

FW : 353.50

DEA schedule : 2

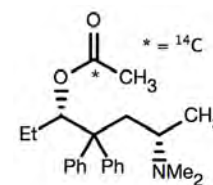


Catalog number : 9648-014

Name : (-)-[Acetyl- ^{14}C]- α -AcetylmethadolMol. formula : $\text{C}_{23}\text{H}_{32}\text{ClNO}_2$

FW : 353.50

DEA schedule : 2

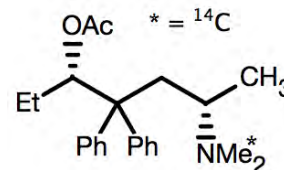


Catalog number : 9648-015

Name : (-)-[N- $^{14}\text{CH}_3$]- α -Acetylmethadol hydrochlorideMol. formula : $\text{C}_{23}\text{H}_{31}\text{NO}_2$

FW : 353.50

DEA schedule : 2

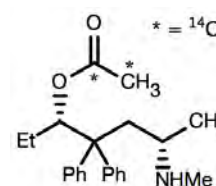


Catalog number : 9633-005

Name : (-)-[Acetyl- $^{14}\text{C}_2$]- α -Acetylnormethadol hydrochlorideMol. formula : $\text{C}_{22}\text{H}_{30}\text{ClNO}_2$

FW : 375.94

DEA schedule : 1

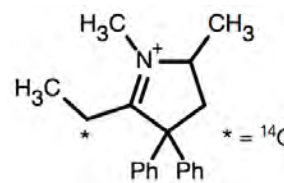


Catalog number : 9250-026

Name : [1'- ^{14}C]-2-Ethyl-1,5-dimethyl-3,3-diphenylpyrrolinium perchlorateMol. formula : $\text{C}_{20}\text{H}_{25}\text{ClNO}_4$

FW : 536.01

DEA schedule : 0

**Sedatives: Methaqualone Class**

Catalog number : 2565-002

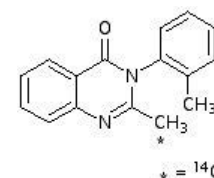
CASRN : 72-44-6

Name : [2- ^{14}C]MethaqualoneMol. formula : $\text{C}_{16}\text{H}_{14}\text{N}_2\text{O}$

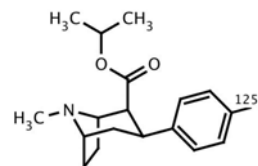
FW : 251.30

DEA schedule : 1

Notes : Sedative; hypnotic (carbon-labeled).





Peptides: Opioid**Catalog number :** MPSP-026**Name :** [¹²⁵I]β-Endorphin**Mol. formula :** C₁₅₈H₂₄₉N₃₉O₄₆S₁₂₅I₂ **FW :** 3589.6**Notes :** *Radioactive ligand for MPSP-024***References :** *Deby-Dupont, G; et al. C R Seances Soc Biol Fil 1983, 177, 259-68.*
*Schweigerer, L; et al. J Biol Chem 1983, 258, 12287-92.*H-
YGGFMTSEKSQTPLVTLFKNAI
IKNAYKY[125I2]GE-OH**Stimulants: Tropane Class****Catalog number :** NOCD-077**Name :** [¹²⁵I]RTI-121**Mol. formula :** C₁₈H₂₄INO₂ **FW :** 413.29 **DEA schedule :** 0**References :** *Scheffel, U; et al. Neuroreport 1992, 3, 969-72.*
Carroll, FI; et al. J Med Chem 1995, 38, 379-88.



Limited quantities of Nicotine Research Cigarettes (NRC)s manufactured under the NIDA DSP are available to research investigators under specified parameters such as nicotine and tar yields ,and type as reduced nicotine (RN), reduced nicotine and menthol (RN-Men), reduced nicotine and high tar (RN-HT), reduced nicotine, high tar and menthol (RN-HT-Men), and conventional nicotine (CN). The NIDA DSP will consider requests for its current inventory of NRCs from researcher investigators funded through the NIH to conduct tobacco science research.

To facilitate planning for either usage of the current inventory of NRCs, or future manufacturing needs, the NIDA DSP requests that research investigators who intend to submit requests for NRCs from the NIDA DSP send an email request with the following information: 1) anticipated total quantity (carton) of each type of NRC needed with their Tobacco Product Master File (TPMF) codes and Type, 2) the requested timeline and amounts for initial receipt, and 3) requested timeline of replenishment of each type of NRC. For those research investigators who have NIDA/NIH grants, they can submit their request according to the NIDA DSP Guidelines for Research Chemicals, Controlled Substances, and Nicotine Research Cigarettes (NRC). For more information, please email NIDANRCSupply@mail.nih.gov

Characteristics of the NRC inventory are described in the following table:

Nicotine Research Cigarettes (RTI)								
TPMF Code	Type	Filter PD (mm H ₂ O)	Filter Type (Mono/Dual)	Filter Type (Regular/ Menthol)	Tipping Paper Perforation	Nicotine Content (mg/g tobacco)	Specifications Nicotine Yield	Specifications Tar Yield
NRC100	RN-HV	81	Dual	Regular	800CU	0.47 ± 0.02	0.02 ± 0.01	3.0 ± 1.5
NRC101	RN-HV-Men	81	Dual	Menthol	800CU	0.47 ± 0.01	0.02 ± 0.01	3.0 ± 1.5
NRC102	RN	81	Dual	Regular	100CU	0.42 ± 0.01	0.03 ± 0.01	9.0 ± 1.5
NRC103	RN-Men	81	Dual	Menthol	100CU	0.44 ± 0.01	0.03 ± 0.01	9.0 ± 1.5
NRC104	RN-HT	56	Mono	Regular	0CU	0.51 ± 0.00	0.04 ± 0.02	13.0 ± 2.0
NRC105	RN-HT-Men	56	Mono	Menthol	0CU	0.46 ± 0.01	0.04 ± 0.02	13.0 ± 2.0
NRC200	RN	81	Dual	Regular	100CU	1.40 ± 0.03	0.07 ± 0.02	9.0 ± 1.5
NRC201	RN-Men	81	Dual	Menthol	100CU	1.34 ± 0.07	0.07 ± 0.02	9.0 ± 1.5
NRC300	RN	81	Dual	Regular	100CU	2.53 ± 0.04	0.12 ± 0.03	9.0 ± 1.5
NRC301	RN-Men	81	Dual	Menthol	100CU	2.54 ± 0.05	0.12 ± 0.03	9.0 ± 1.5
NRC302	RN-HT-Men	56	Mono	Menthol	0CU	2.50 ± 0.04	0.16 ± 0.03	13.0 ± 2.0
NRC400	RN	81	Dual	Regular	100CU	5.62 ± 0.18	0.26 ± 0.06	9.0 ± 1.5
NRC401	RN-Men	81	Dual	Menthol	100CU	5.54 ± 0.27	0.26 ± 0.06	9.0 ± 1.5
NRC402	RN-HT	81	Mono	Regular	100CU	6.03 ± 0.18	0.33 ± 0.06	13.0 ± 2.0
NRC405	RN-HT-Men	56	Mono	Menthol	0CU	5.96 ± 0.21	0.40 ± 0.08	13.0 ± 2.0
NRC404	RN-HT	56	Mono	Regular	0CU	8.08 ± 0.15	0.60 ± 0.12	13.0 ± 2.0
NRC500	RN-HT	81	Mono	Regular	100CU	12.06 ± 0.41	0.70 ± 0.15	13.0 ± 2.0
NRC501	RN-Men	81	Dual	Menthol	100CU	11.26 ± 0.11	0.60 ± 0.12	9.0 ± 1.5
NRC600	CN	81	Dual	Regular	100CU	17.36 ± 0.28	0.80 ± 0.15	10.5 ± 1.5
NRC601	CN-Men	81	Dual	Menthol	100CU	16.50 ± 0.17	0.80 ± 0.15	10.5 ± 1.5
NRC602	CN-HT-Men	56	Mono	Menthol	0CU	16.10 ± 0.52	1.10 ± 0.20	16.0 ± 2.0
NRC700	LTNR-HT	81	Mono	Regular	100CU	25.94 ± 0.65	1.60 ± 0.30	16.0 ± 2.0
NRC701	LTNR-Men	81	Dual	Menthol	100CU	25.83 ± 0.48	1.60 ± 0.30	12.0 ± 2.0

Definitions

CN	Conventional Nicotine
CN-HT-Men	Conventional Nicotine-High Tar-Menthol
CN-Men	Conventional Nicotine-Menthol
CU	Coresta Units
	[0CU = Non-perforated tipping paper]
Dual filter	Consists of 10 mm paper and 15 mm cellulose acetate segments
LTNR-HT	Low Tar Nicotine Ratio-High Tar
LTNR-Men	Low Tar Nicotine Ratio-Menthol
Mono filter	Consists of 25 mm cellulose acetate segment
PD	Pressure drop
RN	Reduced Nicotine
RN-HT	Reduced Nicotine-High Tar
RN-HT-Men	Reduced Nicotine-High Tar-Menthol
RN-HV	Reduced Nicotine-High Ventilation
RN-HV-Men	Reduced Nicotine-High Ventilation-Menthol
RN-Men	Reduced Nicotine-Menthol
TPMF	Tobacco Product Master File number

Marijuana Plant Material

Research grade marijuana products are available in a variety of cannabinoid content specifications as shown below. For detailed information on specific batches please refer to the NIDA website (<http://www.drugabuse.gov/researchers/research-resources/nida-drug-supply-program-dsp/bulk-marijuana-plant-material-addendum-to-drug-supply-catalog>). NIDA may also be able to develop bulk marijuana of other specific THC and CBD contents by mixing batches to meet researcher needs. For further information please contact the NIDA Drug Supply Program Director, Dr Hari Singh, at hsingh@nida.nih.gov.

Marijuana cigarettes and bulk marijuana plant material produced under the NIDA DSP are available at no cost to research investigators who have an NIH grant. Marijuana is also available to research investigators who are funded through non-Federal sources on a cost-reimbursement basis. Please see the Note at the end of the tables for more information on costs.

Marijuana cigarettes

The following represents the existing stocks of manufactured marijuana cigarettes, which will be made available to the research community until depleted. For additional information on the specific cannabinoid content please see <http://www.drugabuse.gov/researchers/research-resources/nida-drug-supply-program-dsp/bulk-marijuana-plant-material-addendum-to-drug-supply-catalog>. Please note that NIDA does not plan to manufacture marijuana cigarettes in the near future. Only bulk marijuana will generally be available for research:

Placebo Marijuana Cigarettes (Placebo)	0.001% THC
Marijuana Cigarettes (Medium)	2.0% THC
Marijuana Cigarettes (Medium)	3.6% THC
Marijuana Cigarettes (High)	5.6% THC
Marijuana Cigarettes (High)	6.4% THC

Bulk Marijuana

Bulk marijuana is currently available in the following general categories, and due to recent interest its strength is being provided for both THC and CBD as *Low* (<1%), *Medium* (1-5%), *High* (5-10%), and *Very High* (>10%). Bulk marijuana has small amounts of other cannabinoids (CBC, CBG, CBN, and THCV) which are reported in the batch specific details (<http://www.drugabuse.gov/researchers/research-resources/nida-drug-supply-program-dsp/bulk-marijuana-plant-material-addendum-to-drug-supply-catalog>).

Placebo marijuana (produced by solvent extraction)

1. THC (0%) / CBD (0%)

Low THC varieties

1. Low THC (<1%) / Medium CBD (1-5%)
2. Low THC (<1%) / High CBD (5-10%)
3. Low THC (<1%) / Very High CBD (>10%)

Medium THC varieties

1. Medium THC (1-5%) / Low CBD (<1%)
2. Medium THC (1-5%) / Medium CBD (1-5%)
3. Medium THC (1-5%) / High CBD (5-10%)
4. Medium THC (1-5%) / Very High CBD (>10%)

High THC varieties

1. High THC (5-10%) / Low CBD (<1%)
2. High THC (5-10%) / High CBD (5-10%)
3. High THC (5-10%) / Very High CBD (>10%)

Very high THC varieties

1. Very High THC (>10%) / Low CBD (<1%)

Important note regarding cost-reimbursement

The services and material from the NIDA Drug Supply Program are generally free to NIH-sponsored investigators. Some requests may incur a nominal fee depending on study status, funding source, and type of material being requested. Pursuant to HHS policy published May 21, 1999 marijuana for non-Federally funded research is to be provided on a cost-reimbursement basis. NIDA intends to implement the following pricing schedule for collection of fees for marijuana once HHS and NIH develop updated policies and transactional procedures on the specifics regarding cost-reimbursement of research substances for non-Federally supported projects. These policies and procedures may significantly impact the timing, mechanisms, and recipient of any collected fees but will not impact the shipments. An update will be posted once the final Guidance is received.

Marijuana Pricing Schedule

<u>Item</u>	<u>Price</u>
Non-placebo Cigarette	\$10.96 each
Placebo Cigarette	\$13.94 each
Bulk Marijuana	\$2,497.00 per kilogram

