

# **International Nonproprietary Names (INN) for pharmaceutical substances**

Names for radicals, groups & others  
Comprehensive list

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2015



**World Health  
Organization**

International Nonproprietary Names (INN) Programme  
Technologies Standards and Norms (TSN )

Regulation of medicines and other health technologies (RHT) Essential Medicines and Health Products (EMP)



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## WHO'S INN PROGRAMME

### GENERAL INFORMATION

The World Health Organization (WHO) has a constitutional responsibility to "develop, establish and promote international standards with respect to biological, pharmaceutical and similar products". The International Nonproprietary Names (INN) Programme is a core activity embedded in the normative functions of WHO and has served the global public health and medicines community for over sixty years. The Programme was established to assign nonproprietary names to pharmaceutical substances so that each substance would be recognized by a unique name. Such names are needed for the clear identification, safe prescription and dispensing of medicines, and for communication and exchange of information among health professionals. INNs can be used freely because they are in the public domain. In addition to being a basic component of many WHO medicines activities and programmes, INNs are used in regulatory and administrative processes in many countries. They are also intended for use in pharmacopoeias, labelling, and product information and to provide standardized terminology for the international exchange of scientific information.

### INN SELECTION PROCEDURE

Each name proposed for designation as an INN is examined and selected in accordance with a formal procedure. Requests for INNs can be submitted directly to WHO (application forms online at <http://www.who.int/medicines/services/inn/en/>). In some countries where national nomenclature commissions exist, applications may also be made through the national nomenclature authority.

The INN Expert Group, consisting of selected members of the WHO Expert Panel on the International Pharmacopoeia and Pharmaceutical Preparations is officially designated to select nonproprietary names. Based on the information provided, an agreed name is selected and published as a **proposed** INN. During a four month period, any person can make comments or lodge a formal objection to the proposed name. If no objection is raised, this agreed name is published as the **recommended** INN.

In 1993, the World Health Assembly endorsed resolution WHA46.19 which states that trade marks should not be derived from INNs and INN stems should not be used in trade marks. The Assembly reasoned that such practice could frustrate the rational selection of INNs and ultimately compromise the safety of patients by promoting confusion in drug nomenclature. Above all, INNs are protected for use in the public domain.

### CRITERIA FOR SELECTION OF INN

International Nonproprietary Names (INN) should be distinctive in sound and spelling. They should not be inconveniently long and not be liable to confusion with names in common use.

In addition, certain rules have been established in devising INNs to facilitate their use internationally. For example, to make pronunciation possible in various languages, the letters "h" and "k" should be avoided; "e" should be used instead of "ae" and "oe", "i" instead of "y", "t" instead of "th" and "f" instead of "ph".

Information on transliteration of Greek letters in English, French and Spanish is given in Annex 2 and on standardization of the Spanish version of INN in Annex 3.

Further information on the selection procedure and general principles in devising INNs may be found in the “Guidelines on the Use of International Nonproprietary Names (INNs) for Pharmaceutical Substances” (WHO/PHARM S/NOM 1570) available on the INN Programme website at: <http://www.who.int/medicines/services/inn/publication/en/index.html>.

### **INN STEMS**

Stems define the pharmacologically related group to which the INN belongs. Whenever possible, an INN includes the "common stem" expressing the pharmacologically-related group. Names that are likely to convey an anatomical, physiological, pathological or therapeutic suggestion are avoided.

For further details on stems, please refer to "*The use of stems in the selection of International Nonproprietary Names (INN) for pharmaceutical substances*" (WHO/EMP/RHT/TSN/2013.1), which can be downloaded from the INN Programme website:

<http://www.who.int/medicines/services/inn/en/>

## NAMES FOR RADICALS AND GROUPS

As a general rule, since 1975 INNs are selected for the active moiety of pharmaceutical substances. In the case of INNs of salts and esters it is left to the user to devise their names from the INN in conformity with normal chemical practice. Separate names for salts and esters derived from this procedure are not published. The same approach should be followed in the case of combination products. In all those situations, names are referred to as International Nonproprietary Name Modified INN.

Some of the radicals and groups involved are, however, of such complexity that, shorter nonproprietary names are selected for these inactive moieties, and published in proposed lists under the title "names for radicals and groups". If a "radical and group name" is used in conjunction with an INN, it is also referred to as an INN.

In some cases, a name of an INN Radical describes more than one substituent, e.g. (names in Latin) *acefuras*, *aceponas*, *enbutas*, *stinopras*,... Alphabetical list of currently used names for radicals and groups is given in the main part of the document, while the names of elements and chemical groups that were published together with INNs are given in Annex 1.

For further details on the INN, please refer to the INN Working Document 05.167/3 "*International Nonproprietary Names Modified*" which can be downloaded from the INN Programme website.

### INFORMATION ON NAMES USED FOR SPECIFIC GROUPS OF SUBSTANCES

For a few groups of substances containing certain structural features, INNs are selected using particular approaches. Designations used in such INNs are listed in Annex 4. INNs for substances that include a carrier moiety are usually given a two-word name, describing separately the active element and the carrier part. Designations used for toxins (either active or inactivated proteins) are listed in Annex 4.1. Particular designations selected for other types of active moieties and relevant INNs are listed in Annex 4.2. It should be noted that these lists are not comprehensive.

INNs for modified insulins include, as a second word, a qualifier indicating to modifications introduced into the amino acid chain. These insulin qualifiers are listed in Annex 4.3.

INNs for substances that contain as the carrier a polyoxyethylene polymeric chain are given either a prefix *peg-*, an infix *-peg-* or a two-word INN, using "*pegol*" as the second word. The list of INNs containing such structures and an explanatory note is given in Annex 5.





## TABLE OF CONTENTS

	<i>Pages</i>
WHO's INN Programme	p. 1
Names for Radicals and Groups	p. 3
Table of contents	p. 5
Reference to publications containing proposed Lists of INN	p. 7
Layout of information	p. 9
Alphabetical list of names for radicals and groups	p. 11
ANNEX 1: Groups and elements published together with INN	p. 49
ANNEX 2: Transliteration of Greek letters in English, French and Spanish	p. 55
ANNEX 3: Standardization of the Spanish version of INN	p. 57
ANNEX 4: Names for toxins, insulins qualifiers, etc	p. 59
ANNEX 5: Names for substances with polyethylene glycol (PEG) polymeric chains	p. 71

**Acknowledgements**

This edition is dedicated to Prof. Henri Favre (1926-2013), Canada.

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**Reference to publications containing proposed Lists of INN:****List no. and reference**

1 *Chron. Wld Hlth Org.* 7: 299 (1953)  
2 *Chron. Wld Hlth Org.* 8: 216 (1954)  
3 *Chron. Wld Hlth Org.* 8: 313 (1954)  
4 *Chron. Wld Hlth Org.* 10: 28 (1956)  
5 *Chron. Wld Hlth Org.* 11: 231 (1957)  
6 *Chron. Wld Hlth Org.* 12: 102 (1958)  
7 *WHO chronicle* 13: 105 (1959)  
8 *WHO chronicle* 13: 152 (1959)  
9 *WHO chronicle* 14: 168 (1960)  
10 *WHO chronicle* 14: 244 (1960)  
11 *WHO chronicle* 15: 314 (1961)  
12 *WHO chronicle* 16: 385 (1962)  
13 *WHO chronicle* 17: 389 (1963)  
14 *WHO chronicle* 18: 433 (1964)  
15 *WHO chronicle* 19: 446 (1965)  
16 *WHO chronicle* 20: 216 (1966)  
17 *WHO chronicle* 21: 70 (1967)  
18 *WHO chronicle* 21: 478 (1967)  
19 *WHO chronicle* 22: 112 (1968)  
20 *WHO chronicle* 22: 407 (1968)  
21 *WHO chronicle* 23: 183 (1969)  
22 *WHO chronicle* 23: 418 (1969)  
23 *WHO chronicle* 24: 119 (1970)  
24 *WHO chronicle* 24: 413 (1970)  
25 *WHO chronicle* 25: 123 (1971)  
26 *WHO chronicle* 25: 415 (1971)  
27 *WHO chronicle* 26: 121 (1972)  
28 *WHO chronicle* 26: 414 (1972)  
29 *WHO chronicle* 27: 120 (1973)  
30 *WHO chronicle* 27: 380 (1973)  
31 *WHO chronicle* 28: 133 (1974)  
32 *WHO chronicle* 28: No. 9, suppl. (1974)  
33 *WHO chronicle* 29: No. 3, suppl. (1975)  
34 *WHO chronicle* 29: No. 9, suppl. (1975)  
35 *WHO chronicle* 30: No. 3, suppl. (1976)  
36 *WHO chronicle* 30: No. 9, suppl. (1976)  
37 *WHO chronicle* 31: No. 3, suppl. (1977)  
38 *WHO chronicle* 31: No. 9, suppl. (1977)  
39 *WHO chronicle* 32: No. 3, suppl. (1978)  
40 *WHO chronicle* 32: No. 9, suppl. (1978)  
41 *WHO chronicle* 33: No. 3, suppl. (1979)  
42 *WHO chronicle* 33: No. 9, suppl. (1979)  
43 *WHO chronicle* 34: No. 3, suppl. (1980)  
44 *WHO chronicle* 34: No. 9, suppl. (1980)  
45 *WHO chronicle* 35: No. 3, suppl. (1981)

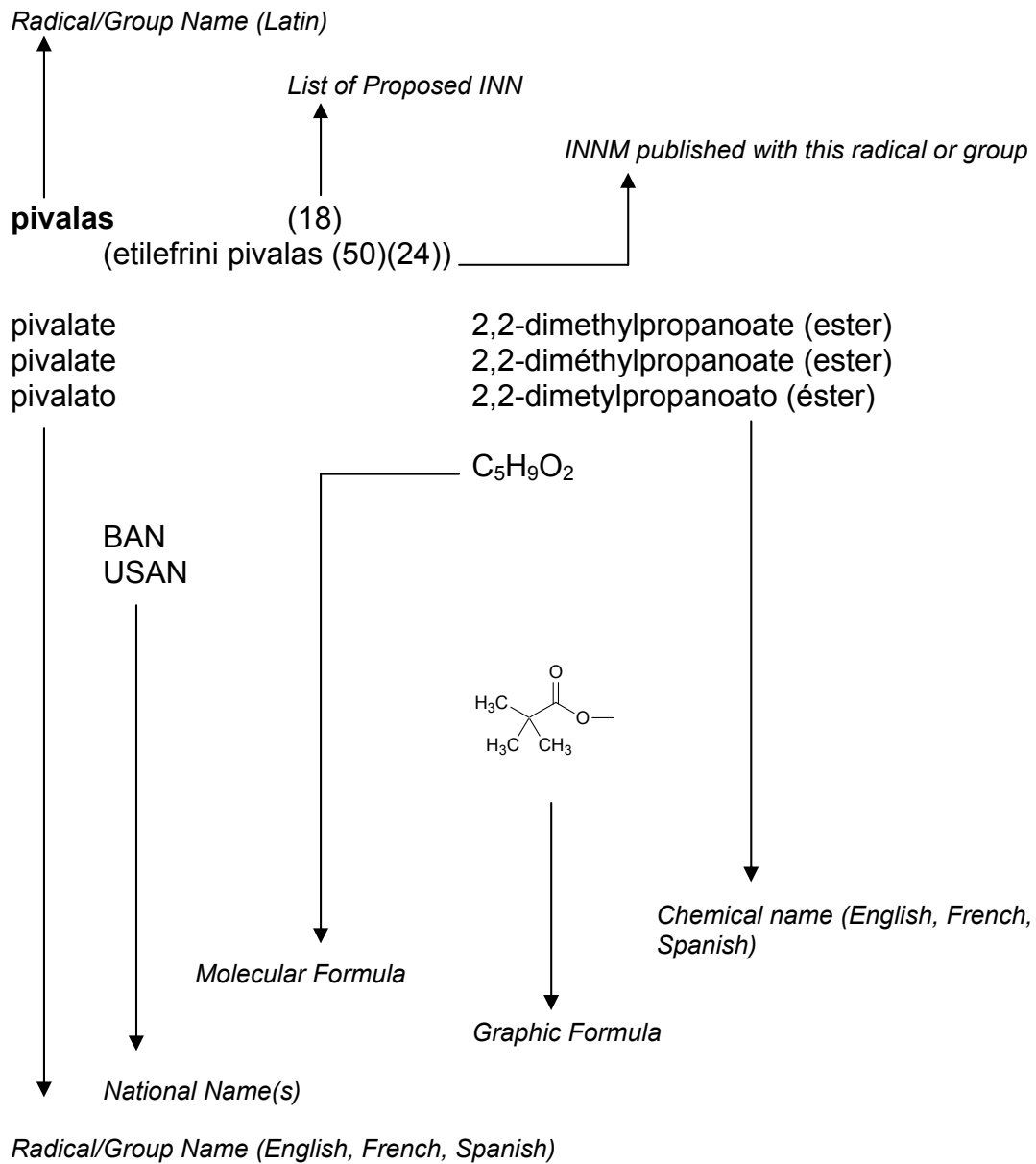
**List no. and reference**

46 *WHO chronicle* 35: No. 5, suppl. (1981)  
47 *WHO chronicle* 36: No. 2, suppl. (1982)  
48 *WHO chronicle* 36: No. 5, suppl. (1982)  
49 *WHO chronicle* 37: No. 2, suppl. (1983)  
50 *WHO chronicle* 37: No. 5, suppl. (1983)  
51 *WHO chronicle* 38: No. 2 suppl. (1984)  
52 *WHO chronicle* 38: No. 4, suppl. (1984)  
53 *WHO chronicle* 39: No. 1, suppl. (1985)  
54 *WHO chronicle* 39: No. 4, suppl. (1985)  
55 *WHO chronicle* 40: No. 1, suppl. (1986)  
56 *WHO chronicle* 40: No. 5, suppl. (1986)  
57 *WHO drug information* 1: No. 2 (1987)  
58 *WHO drug information* 1: No. 3 (1987)  
59 *WHO drug information* 2: No. 2 (1988)  
60 *WHO drug information* 2: No. 4 (1988)  
61 *WHO drug information* 3: No. 2 (1989)  
62 *WHO drug information* 3: No. 4 (1989)  
63 *WHO drug information* 4: No. 2 (1990)  
64 *WHO drug information* 4: No. 4 (1990)  
65 *WHO drug information* 5: No. 2 (1991)  
66 *WHO drug information* 5: No. 4 (1991)  
67 *WHO drug information* 6: No. 2 (1992)  
68 *WHO drug information* 6: No. 4 (1992)  
69 *WHO drug information* 7: No. 2 (1993)  
70 *WHO drug information* 7: No. 4 (1993)  
71 *WHO drug information* 8: No. 2 (1994)  
72 *WHO drug information* 8: No. 4 (1994)  
73 *WHO drug information* 9: No. 2 (1995)  
74 *WHO drug information* 9: No. 4 (1995)  
75 *WHO drug information* 10: No. 2 (1996)  
76 *WHO drug information* 10: No. 4 (1996)  
77 *WHO drug information* 11: No. 2 (1997)  
78 *WHO drug information* 11: No. 4 (1997)  
79 *WHO drug information* 12: No. 2 (1998)  
80 *WHO drug information* 12: No. 4 (1998)  
81 *WHO drug information* 13: No. 2 (1999)  
82 *WHO drug information* 13: No. 4 (1999)  
83 *WHO drug information* 14: No. 2 (2000)  
84 *WHO drug information* 14: No. 4 (2000)  
85 *WHO drug information* 15: No. 2 (2001)  
86 *WHO drug information* 16: No. 1 (2002)  
87 *WHO drug information* 16: No. 2 (2002)  
88 *WHO drug information* 17: No. 1 (2003)  
89 *WHO drug information* 17: No. 3 (2003)  
90 *WHO drug information* 18: No. 1 (2004)

**List no. and reference**

- 91 *WHO drug information* 18: No. 2 (2004)
- 92 *WHO drug information* 18: No. 4 (2004)
- 93 *WHO drug information* 19: No. 2 (2005)
- 94 *WHO drug information* 19: No. 4 (2005)
- 95 *WHO drug information* 20: No. 2 (2006)
- 96 *WHO drug information* 20: No. 4 (2006)
- 97 *WHO drug information* 21: No. 2 (2007)
- 98 *WHO drug information* 21: No. 4 (2007)
- 99 *WHO drug information* 22: No. 2 (2008)
- 100 *WHO drug information* 22: No. 4 (2008)
- 101 *WHO drug information* 23: No. 2 (2009)
- 102 *WHO drug information* 23: No. 4 (2009)
- 103 *WHO drug information* 24: No. 2 (2010)
- 104 *WHO drug information* 24: No. 4 (2010)
- 105 *WHO drug information* 25: No. 2 (2011)
- 106 *WHO drug information* 25: No. 4 (2011)
- 107 *WHO drug information* 26: No. 2 (2012)
- 108 *WHO drug information* 26: No. 4 (2012)
- 109 *WHO drug information* 27: No. 2 (2013)
- 110 *WHO drug information* 27: No. 4 (2013)
- 111 *WHO drug information* 28: No. 2 (2014)
- 112 *WHO drug information* 28: No. 4 (2014)

## Layout of information





# INNs: Names for radicals and groups

## *Comprehensive list*

### Explanatory Note

Some substances for which a proposed International Nonproprietary Name has been established for the active moiety may be used in the form of salts or esters and their names are devised from the INN in conformity with normal chemical practice. However, in some cases, the radicals or groups involved may be of complex composition and it is then inconvenient to refer to them in systematic chemical nomenclature. Consequently, shorter nonproprietary names for some radicals and groups have been devised or selected, and they are suggested for use with the proposed nonproprietary names.

The following list contains radicals and groups which have been published either in the section "Names for radicals and groups" in lists 1-112 of proposed INN or as part of a two-word INN in lists 1-112 of proposed and 1-74 of recommended INN, respectively. Whenever a name appeared in both lists, reference is made to its publication only in the category "radicals and groups".

Other groups and elements which have been published in two-word INN and which may now be considered as being part of the INN (modified INN) approach are listed in ANNEX 1 of this document.

In addition, references to British Approved Name (BAN)<sup>1</sup>, Japanese Accepted Name (JAN)<sup>2</sup> and United States Adopted Name (USAN)<sup>3</sup> have been included for the radicals, groups and adducts published or accepted for use by these national nomenclature committees.

<sup>1</sup> British Approved Names 2012, Names for ions and Groups, effective date: 1 January 2012

<sup>2</sup> Japanese Accepted Names for Pharmaceuticals (JAN), last verification: October 2014 at :  
<http://moldb.nihs.go.jp/jan/index.aspx>

<sup>3</sup> "USP Dictionary of USAN and International Drug names", 2014 "Organic moieties, Counterions and Solvent Molecules Used in Coining Two-Word Names", USAN Program:  
<http://www.ama-assn.org/resources/doc/usan/radicals-and-anions-list.pdf> consulted August 2015

*Latin name**English name**Dénomination en français**Denominación en español**chemical name**molecular formula**graphic formula**(published as INN (Proposed list number)(Recommended list number))***acefuras**

(dexamethasoni acefuras (57)(27))

acefurate

acéfurate

acefurato

acetate (ester), furan-2-carboxylate (ester)

acétate (ester), furane-2-carboxylate (ester)

acetato (éster), furano-2-carboxilato (éster)

USAN

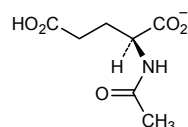
 $C_7H_6O_5$ **aceglumas**

(deanoli aceglumas (15)(!))

aceglumate

acéglumate

aceglumato

hydrogen *N*-acetyl-L-glutamatehydrogène *N*-acétyl-L-glutamatehidrógeno *N*-acetil-L-glutamato $C_7H_{10}NO_5$ **aceponas**

(methylprednisoloni aceponas (52)(25))

(hydrocortisoni aceponas (54)(26))

aceponate

acéponate

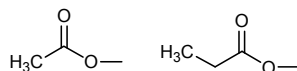
aceponato

acetate (ester), propanoate (ester)

acétate (ester), propanoate (ester)

acetato (éster), propanoato (éster)

JAN

 $C_5H_8O_4$ 



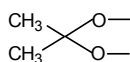
**acetonidum**

(fluocinoloni acetonidum (11)(05))  
 (flucloroloni acetonidum (22)(10))

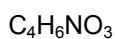
acetonide                      propane-2,2-diylbis(oxy)  
 acétonide                     propane-2,2-diylbis(oxy)  
 acetónido                     propano-2,2-diilbis(oxi)



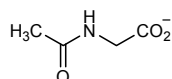
BAN  
 JAN  
 USAN

**aceturas** (22)

aceturate                      *N*-acetylglycinate  
 acéturate                     *N*-acétylglycinate  
 aceturato                     *N*-acetilglicinato

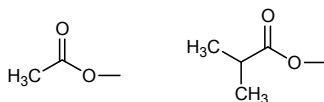
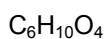


BAN  
 USAN

**acibutas**

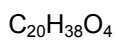
(betamethasoni acibutas (26)(12))

acibutate                     acetate (ester), 2-methylpropanoate (ester)  
 acibutate                     acétate (ester), 2-méthylpropanoate (ester)  
 acibutato                     acetato (éster), 2-metilpropanoato (éster)

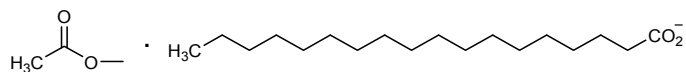
**acistras** (64)

(erythromycini acistras (53)(25))

acistrate                      acetate (ester), octadecanoate (salt)  
 acistrate                      acétate (ester), octadécanoate (sel)  
 acistrato                      acetato (éster), octadecanoato (sal)



USAN

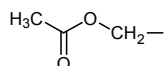


**acoxilum** (67)

acoxil (acetyloxy)methyl  
 acoxil (acétyloxy)méthyle  
 acoxilo (acetiloxi)metilo

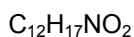


JAN  
 USAN

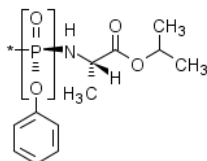
**alafenamidum**

(tenefovirum alafenamidum (112)(74))

alafenamide (S)-P-[(2S)-1-oxo-1-(propan-2-yloxy)propan-2-yl]amide P-phenyl ester  
 alafénamide (S)-P-[(2S)-1-oxo-1-(propan-2-yloxy)propan-2-yl]amide et ester P-phénylique (de)  
 alafenamida (S)-P-[(2S)-1-oxo-1-(propan-2-iloxi)propan-2-il]amido y éster P-fenílico (del)

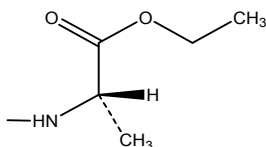
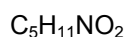


USAN

**alanetilum**

(managlinatum dialanetilum (97)(58))

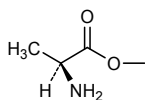
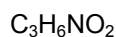
alanetil [(S)-1-ethoxy-1-oxopropan-2-yl]amino  
 alanétil [(S)-1-éthoxy-1-oxopropan-2-yl]amino  
 alanetilo [(S)-1-etoxi-1-oxopropan-2-il]amino

**alaninas**

(alaninati brivanibum (97)(59))

alaninate L-alaninate (ester)  
 alaninate L-alaninate (ester)  
 alaninato L-alaninato (éster)

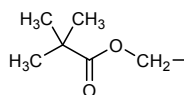
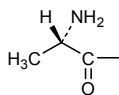
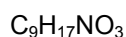
JAN

**alapivoxilum**

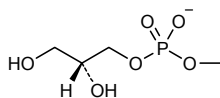
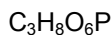
(ceftizoximum alapivoxilum (77)(39))

alapivoxil  
alapivoxil  
alapivoxiloL-alanyl, [(2,2-dimethylpropanoyl)oxy]methyl  
L-alanyle, [(2,2-diméthylpropanoyl)oxy]méthyle  
L-alanilo, [(2,2-diméthylpropanoil)oxi]metilo

JAN

**alfosceras**

(cholini alfosceras (60)(29))

alfoscerate  
alfoscérate  
alfoscerato(2*R*)-2,3-dihydroxypropyl hydrogen phosphate  
hydrogénophosphate de (2*R*)-2,3-dihydroxypropyle  
hidrógenofosfato de (2*R*)-2,3-dihidroxiopropilo**alideximerum**

(exatecanum alideximerum (89)(51))

alideximer

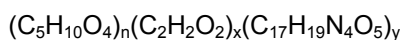
poly{oxy(2-hydroxyethane-1,1-diyl)oxy[1-(hydroxymethyl)ethane-1,2-diyl]} partly O-etherified with carboxymethyl groups with some carboxy groups amide linked to the tetrapeptide residue (glyglylglycyl-L-phenylalanylglycyl)

alideximer

poly{oxy(2-hydroxyéthane-1,1-diyl)oxy[1-(hydroxyméthyl)éthane-1,2-diyl]} partiellement O-éthérifié avec le groupe carboxyméthyle avec quelques groupes carboxamides liés au tétrapeptide (glyglylglycyl-L-phénylalanylglycyl)

alidexímero

poli{oxi(2-hidroxietano-1,1-diil)oxi[1-(hidroximetil)etano-1,2-diil]} parcialmente O-eterificado con grupos carboximetilo con algunos grupos carboxamida unidos al tetrapéptido (glicilglicil-L-fenilalanilglicilglicil)



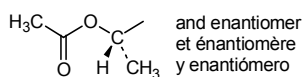


**axetilum** (48)

axetil *rac*-1-(acetyloxy)ethyl  
 axétil *rac*-1-(acétyloxy)éthyle  
 axetilo *rac*-1-(acetiloxi)etilo

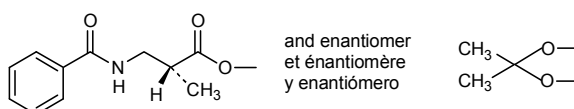
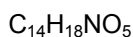


BAN  
 JAN  
 USAN

**benetonidum**

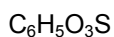
(triamcinoloni benetonidum (36)(17))

benetonide *rac*-3-benzamido-2-methylpropanoate (ester), propane-2,2-diylbis(oxy)  
 bénétonide *rac*-3-benzamido-2-méthylpropanoate (ester), propane-2,2-diylbis(oxy)  
 benetónido *rac*-3-benzamido-2-metilpropanoato (éster), propano-2,2-diilbis(oxi)

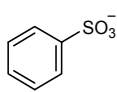
**besilas** (22)

(atracurii besilas (42)(20))  
 (cisatracurii besilas (73)(36))  
 (nolpitantii besilas (75)(37))

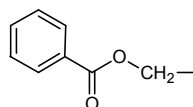
besilate benzenesulfonate  
 bésilate benzènesulfonate  
 besilato bencenosulfonato

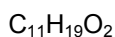


BAN  
 JAN  
 USAN: besylate

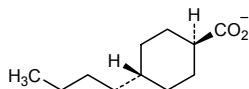
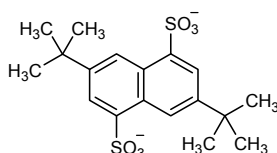
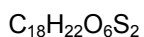
**bezomilum** (62)

bezomil (benzoyloxy)methyl  
 bézomil (benzoyloxy)méthyle  
 bezomilo (benzoiloxi)metilo

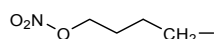
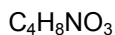
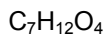


**buciclas** (66)buciclate  
buciclate  
buciclato*trans*-4-butylcyclohexanecarboxylate  
*trans*-4-butylcyclohexanecarboxylate  
*trans*-4-butilciclohexanocarboxilato

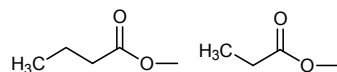
USAN

**bunapsilas** (24)bunapsilate  
bunapsilate  
bunapsilato3,7-di-*tert*-butylnaphthalene-1,5-disulfonate  
3,7-di-*tert*-butylnaphtalène-1,5-disulfonate  
3,7-di-*terc*-butilnaftaleno-1,5-disulfonato**bunodum**

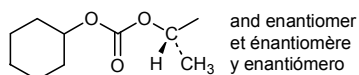
(latanoprostenum bunodum (107))

bunod  
bunod  
bunod4-(nitrooxy)butyl  
4-(nitrooxy)butyl  
4-(nitrooxi)butil**butepras** (61)buteprate  
butéprate  
butepratobutanoate (ester), propanoate (ester)  
butanoate (ester), propanoate (ester)  
butanoato (éster), propanoato (éster)

USAN: probutate

**camsilas** (18)(trimetaphani camsilas (06)(03))  
(amoxydradini camsilas (15)(06))camsilate  
camsilate  
camsilato*rac*-(7,7-dimethyl-2-oxobicyclo[2.2.1]heptan-1-yl)methanesulfonate  
*rac*-(7,7-diméthyl-2-oxobicyclo[2.2.1]heptan-1-yl)méthanesulfonate  
*rac*-(7,7-dimetil-2-oxobicyclo[2.2.1]heptan-1-il)metanosulfonato

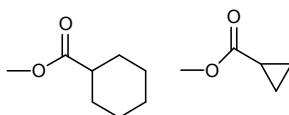
BAN JAN USAN: camsylate	$C_{10}H_{15}O_4S$		and enantiomer et énantiomère y enantiómero
<b>carbesilas</b> (35)			
carbesilate carbésilate carbesilato	4-sulfonatobenzoate 4-sulfonatobenzoate 4-sulfonatobenzoato		
	$C_7H_5O_5S$		
<b>carbonas</b> (lodenafili carbonas (94)(56))			
carbonate carbonate carbonato	carbonate (ester) carbonate (ester) carbonato (éster)		
JAN	$CO_3$		
<b>ceribas</b> (paclitaxelum ceribas (92)(53))			
ceribate céribate ceribato	<i>rac</i> -2,3-dihydroxypropyl carbonate (ester) carbonate de <i>rac</i> -2,3-dihydroxypropyle (ester) carbonato de <i>rac</i> -2,3-dihidroxiopilo (éster)		
	$C_4H_7O_5$		and epimer at C* et l'épimère en C* y el epímero en el C*
<b>ciclotas</b> (28)			
ciclotate ciclotate ciclotato	4-methylbicyclo[2.2.2]oct-2-ene-1-carboxylate 4-méthylbicyclo[2.2.2]oct-2-ène-1-carboxylate 4-metilbicio[2.2.2]oct-2-eno-1-carboxilato		
USAN: cyclotate	$C_{10}H_{13}O_2$		

**cilexetilum** (73)cilexetil  
cilexétíl  
cilexetilo*rac*-1-[(cyclohexyloxy)carbonyloxy]ethyl  
*rac*-1-[(cyclohexyloxy)carbonyloxy]éthyle  
*rac*-1-[(ciclohexiloxi)carbonil]oxi]etiloC<sub>9</sub>H<sub>15</sub>O<sub>3</sub>BAN  
JAN  
USAN**cipecilatam**

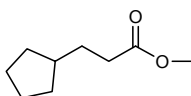
(dexamethasoni cipecilas (94)(56))

cipecilate  
cipécilate  
cipecilatocyclohexanecarboxylate (ester), cyclopropanecarboxylate (ester)  
cyclohexanecarboxylate (ester), cyclopropanecarboxylate (ester)  
ciclohexanocarboxilato (éster), ciclopropanocarboxilato (éster)C<sub>11</sub>H<sub>16</sub>O<sub>4</sub>

JAN

**cipionas** (18)

(oxaboloni cipionas (14)(06))

cipionate  
cipionate  
cipionato3-cyclopentylpropanoate (ester)  
3-cyclopentylpropanoate (ester)  
3-ciclopentilpropanoato (éster)C<sub>8</sub>H<sub>13</sub>O<sub>2</sub>BAN  
JAN  
USAN: cypionate**cituxetanum**

(epitumomabum cituxetanum (89)(51))

cituxetan

*rac*-N-(4-{2-[bis(carboxymethyl)amino]-  
3-[(2-[bis(carboxymethyl)amino]ethyl)(carboxymethyl)  
amino]propyl}phenyl)carbamoithioyl

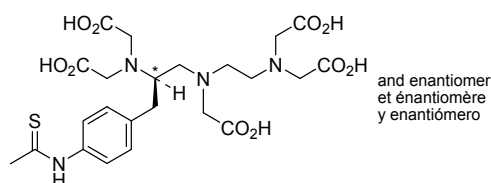
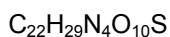
cituxétan

*rac*-N-(4-{2-[bis(carboxyméthyl)amino]-  
3-{2-[bis(carboxyméthyl)amino]éthyl}(carboxyméthyl)  
amino]propyl}phényl)carbamoithioyle

cituxetán

*rac*-N-(4-{2-[bis(carboximetil)amino]-3-{2-[bis(carboximetil)  
amino]etil}(carboximetil)amino]propil}fenil)carbamoithioilo



**clofibrolum**

(acefyllinum clofibrolum (44)(22))

clofibrol

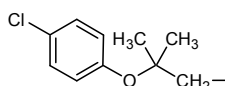
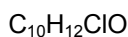
2-(4-chlorophenoxy)-2-methylpropyl

clofibrol

2-(4-chlorophénoxy)-2-méthylpropyle

clofibrol

2-(4-clorofenoxi)-2-metilpropilo

**clostilas**

(18)

(thenii closilas (12)(05))

clostilate

4-chlorobenzene-1-sulfonate

clostilate

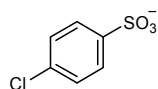
4-chlorobenzène-1-sulfonate

clostilato

4-clorobenceno-1-sulfonato

BAN

USAN: closylate

**crobefas**

(61)

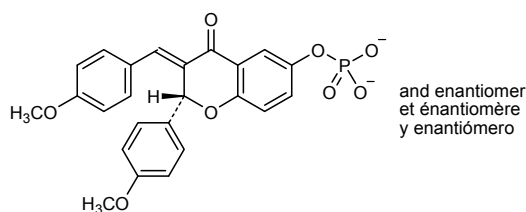
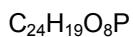
crobefate

*rac*-(3*E*)-2-(4-methoxyphenyl)-3-[(4-methoxyphenyl)methylidene]-4-oxo-3,4-dihydro-2*H*-1-benzopyran-6-yl phosphate(2-)

crobéfate

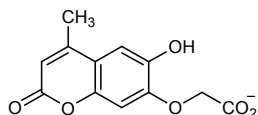
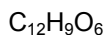
phosphate(2-) de *rac*-(3*E*)-2-(4-méthoxyphényl)-3-[(4-méthoxyphényl)méthylidène]-4-oxo-3,4-dihydro-2*H*-1-benzopyran-6-yle

crobefato

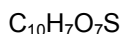
fosfato(2-) de *rac*-(3*E*)-2-(4-metoxifenil)-3-[(4-metoxifenil)metilideno]-4-oxo-3,4-dihidro-2*H*-1-benzopiran-6-ilo

**cromacas** (22)

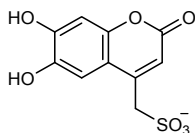
cromacate 2-[(6-hydroxy-4-methyl-2-oxo-2*H*-1-benzopyran-7-yl)oxy]acetate  
 cromacate 2-[(6-hydroxy-4-méthyl-2-oxo-2*H*-1-benzopyran-7-yl)oxy]acétate  
 cromacato 2-[(6-hidroxi-4-metil-2-oxo-2*H*-1-benzopiran-7-il)oxi]acetato

**cromesilas** (22)

cromesilate (6,7-dihydroxy-2-oxo-2*H*-1-benzopyran-4-yl)methanesulfonate  
 cromésilate (6,7-dihydroxy-2-oxo-2*H*-1-benzopyran-4-yl)méthanesulfonate  
 cromesilato (6,7-dihidroxi-2-oxo-2*H*-1-benzopiran-4-il)metanosulfonato



BAN

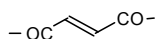
**crosumarilum**

(hemoglobinum crosumarilum (76)(38))  
 (hemoglobinum crosumarilum (bovinum) (108)(70))

crosumaril (2*E*)-but-2-enedioyl  
 crosumaril (2*E*)-but-2-ènedioyle  
 crosumarilo (2*E*)-but-2-enodioilo

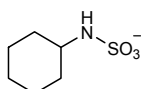
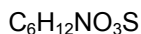


USAN

**cyclamas**

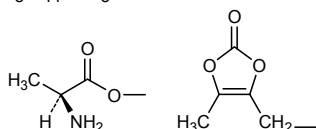
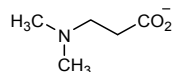
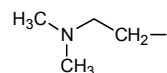
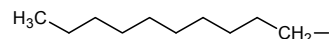
(aminophenazoni cyclamas (16)(!))  
 (natrii cyclamas (01)(01))

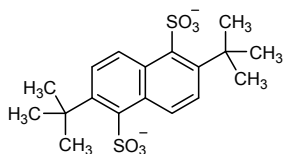
cyclamate cyclohexylsulfamate  
 cyclamate cyclohexylsulfamate  
 ciclamato ciclohexilsulfamato



**daloxatum**

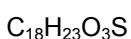
(cefcanelum dolaxatum (59)(29))

daloxate  
daloxate  
daloxatoL-alaninate (ester), (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl  
L-alaninate (ester), (5-méthyl-2-oxo-1,3-dioxol-4-yl)méthyle  
L-alaninato (éster), (5-metil-2-oxo-1,3-dioxol-4-il)metilo $C_8H_{11}NO_5$ **daropas** (74)daropate  
daropate  
daropato3-(dimethylamino)propanoate  
3-(diméthylamino)propanoate  
3-(dimetilamino)propanoato  
 $C_5H_{10}NO_2$ JAN  
USAN: dapropate**deanil** (40)deanil  
déanil  
déanilo2-(dimethylamino)ethyl  
2-(diméthylamino)éthyle  
2-(dimetilamino)etilo $C_4H_{10}N$ **decil** (40)decil  
décil  
decilodecyl  
décyle  
decilo $C_{10}H_{21}$ **dibudinas** (25)dibudinate  
dibudinate  
dibudinato2,6-di-*tert*-butylnaphthalene-1,5-disulfonate  
2,6-di-*tert*-butylnaphtalène-1,5-disulfonate  
2,6-di-*terc*-butilnaftaleno-1,5-disulfonato $C_{18}H_{22}O_6S_2$

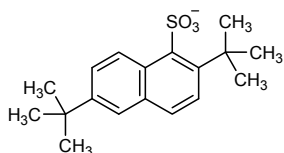


**dibunas** (48)  
(ethylis dibunas (12)(05))  
(natrii dibunas (12)(05))

dibunate 2,6-di-*tert*-butylnaphthalene-1-sulfonate  
dibunate 2,6-di-*tert*-butylnaphthalène-1-sulfonate  
dibunato 2,6-di-*terc*-butilnaftaleno-1-sulfonato

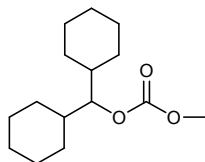
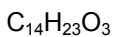


JAN



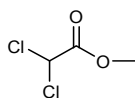
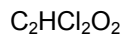
**dicibas**  
(locicortoloni dicibas (60)(29))

dicibate dicyclohexylmethyl carbonate (ester)  
dicibate carbonate de dicyclohexylméthyle (ester)  
dicibato carbonato de dicitlohexilmetilo (éster)



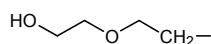
**dicloacetas**  
(etiprednoli dicloacetas (88)(50))

dicloacetate 2,2-dichloroacetate (ester)  
dicloacétate 2,2-dichloroacétate (ester)  
dicloacetato 2,2-dicloroacetato (éster)

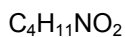


**digolilum** (59)

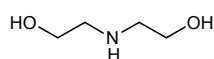
digolil 2-(2-hydroxyethoxy)ethyl  
 digolil 2-(2-hydroxyéthoxy)éthyle  
 digolilo 2-(2-hidroxiético)etilo

**diolaminum** (22)

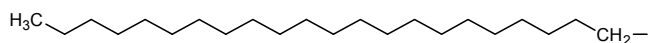
diolamine 2,2'-azanediyl diethanol  
 diolamine 2,2'-azanediyl diéthanol  
 diolamina 2,2'-azanodiil dietanol



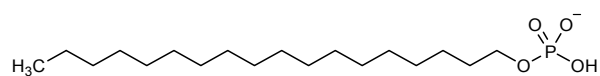
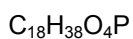
USAN

**docosilum** (63)

docosil docosyl  
 docosil docosyle  
 docosilo docosilo

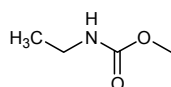
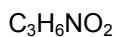
**dofosfatum** (65)

dofosfate octadecyl hydrogen phosphate  
 dofosfate hydrogénophosphate d'octadécyle  
 dofosfato hidrógenofosfato de octadecilo

**ecamas**

(asoprisnili ecamas (89)(50))

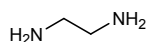
ecamate *N*-ethylcarbamate (ester)  
 écamate *N*-éthylcarbamate (ester)  
 ecamato *N*-etilcarbamato (éster)



**edaminum** (70)

edamine ethane-1,2-diamine  
 édamine éthane-1,2-diamine  
 edamina etano-1,2-diamina

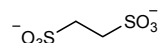
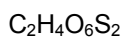
USAN

**edisilas** (18)

edisilate ethane-1,2-disulfonate  
 édisilate éthane-1,2-disulfonate  
 edisilato etano-1,2-disulfonato

BAN

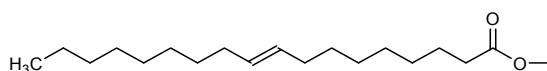
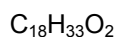
USAN: edisylate

**elaidas**

(gemcitabini elaidas (106)(68))

elaidate (9*E*)-octadec-9-enoate (ester)  
 elaidate (9*E*)-octadéc-9-énoate (ester)  
 elaidato (9*E*)-octadec-9-enoato (éster)

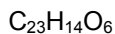
USAN

**embonas** (18)

(cycloguanili embonas (13)(05))

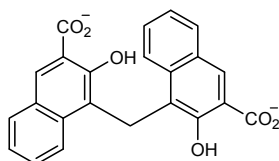
(pararosaniilini embonas (15)(06))

embonate 4,4'-methylenebis(3-hydroxynaphthalene-2-carboxylate)  
 embonate 4,4'-méthylènebis(3-hydroxynaphtalène-2-carboxylate)  
 embonato 4,4'-metilenbis(3-hidroxi-naftaleno-2-carboxilato)



BAN

USAN: pamoate

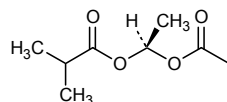


**enacarbilum**

(gabapentinum enacarbilum (94)(56))

enacarbil  
énacarbil  
enacarbilo{rac-1-[(2-methylpropanoyl)oxy]ethoxy}carbonyl  
{rac-1-[(2-méthylpropanoyl)oxy]éthoxy}carbonyle  
{rac-1-[(2-metilpropanoil)oxy]etoxi}carbonilo

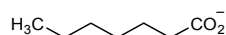
JAN

 $C_7H_{11}O_4$ and enantiomer  
et énantiomère  
y enantiómero**enantas** (18)enantate  
énantate  
enantatoheptanoate  
heptanoate  
heptanoato

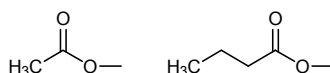
BAN

JAN: enanthate

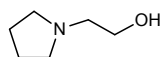
USAN: enanthate

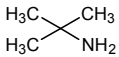
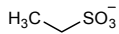
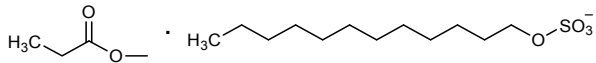
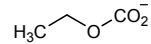
 $C_7H_{13}O_2$ **enbutas**

(icometasoni enbutas (70)(34))

enbutate  
enbutate  
enbutatoacetate (ester), butanoate (ester)  
acétate (ester), butanoate (ester)  
acetato (éster), butanoato (éster) $C_6H_{10}O_4$ **epolaminum** (69)epolamine  
épolamine  
epolamina2-(pyrrolidin-1-yl)ethanol  
2-(pyrrolidin-1-yl)éthanol  
2-(pirrolidin-1-il)etanol

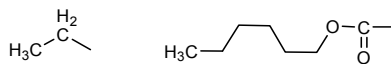
USAN

 $C_6H_{13}NO$ **erbuminum** (62)erbumine  
erbumine  
erbumina2-methylpropan-2-amine  
2-méthylpropan-2-amine  
2-metilpropan-2-amina

		$C_4H_{11}N$
	BAN JAN USAN	
		
<b>esilas</b>	(18) (trazii esilas (54)(26))	
esilate ésilate esilato		ethanesulfonate éthanesulfonate etanosulfonato
		$C_2H_5O_3S$
	BAN USAN: esylate	
		
<b>estolas</b>	(28)	
estolate estolate estolato		propanoate (ester), dodecyl sulfate (salt) propanoate (ester), sulfate de dodécyle (sel) propanoate (éster), sulfato de dodecilo (sal)
		$C_{15}H_{30}O_6S$
	USAN	
		
<b>etabonas</b>	(64) (remogliflozini etabonas (98)(60)) (sergliflozini etabonas (98)(59))	
etabonate étabonate etabonato		ethyl carbonate (ester) carbonate d'éthyle (ester) carbonato de etilo (éster)
		$C_3H_5O_3$
	BAN JAN USAN	
		
<b>etexilatam</b>		
	(dabigatranum etexilatam (87)(49))	
etexilate étexilate etexilato		ethyl (ester), (hexyloxy)carbonyl éthyle (ester), (hexyloxy)carbonyle etilo (éster), (hexiloxi)carbonilo
		$C_9H_{18}O_2$



JAN  
USAN

**etilsulfas**

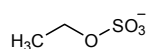
(mecetronii etilsulfas (51)(24))

etilsulfate  
étilsulfate  
etilsulfato

ethyl sulfate  
sulfate d'éthyle  
sulfato de etilo

C<sub>2</sub>H<sub>5</sub>O<sub>4</sub>S

USAN: ethylsulfate

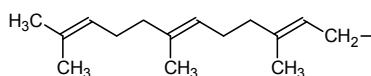
**farnesilum** (61)

farnesil  
farnésil  
farnesilo

(2*E*,6*E*)-3,7,11-trimethyldodeca-2,6,10-trien-1-yl  
(2*E*,6*E*)-3,7,11-triméthylododéca-2,6,10-trién-1-yle  
(2*E*,6*E*)-3,7,11-trimetildodeca-2,6,10-trien-1-ilo

C<sub>15</sub>H<sub>25</sub>

JAN

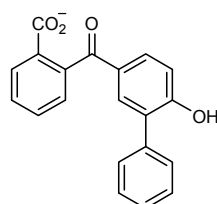
**fendizoas** (64)

fendizoate  
fendizoate  
fendizoato

2-(6-hydroxy[1,1'-biphenyl]-3-carbonyl)benzoate  
2-(6-hydroxy[1,1'-biphényl]-3-carbonyl)benzoate  
2-(6-hidroxi[1,1'-bifenil]-3-carbonil)benzoato

C<sub>20</sub>H<sub>13</sub>O<sub>4</sub>

JAN

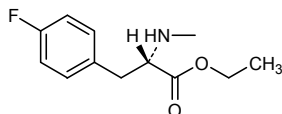
**flufenamidum**

(melphalanum flufenamidum (105)(67))

flufenamide  
flufénamide  
flufenamida

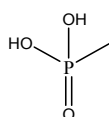
[(2*S*)-1-ethoxy-3-(4-fluorophenyl)-1-oxopropan-2-yl]amino  
[(2*S*)-1-éthoxy-3-(4-fluorophényl)-1-oxopropan-2-yl]amino  
[(2*S*)-1-etoxi-3-(4-fluorofenil)-1-oxopropan-2-il]amino

C<sub>11</sub>H<sub>13</sub>FNO<sub>2</sub>

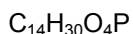
**fosamilum**

(ceftarolinum fosamilum (99)(60))

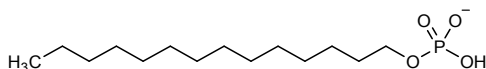
fosamil                      phosphono (linked to an amino group)  
 fosamil                      phosphono (lié à un groupe amino)  
 fosamilo                      fosfono (unido a un grupo amino)

**fostedatum** (70)

fostedate                      tetradecyl hydrogen phosphate  
 fostédáte                      hydrogénophosphate de tétradécyle  
 fostedato                      hidrógenofosfato de tetradecilo

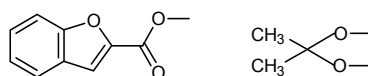
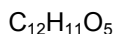


USAN

**furetonidum**

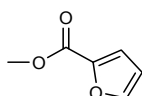
(triamcinoloni furetonidum (36)(17))

furetonide                      1-benzofuran-2-carboxylate (ester), propane-2,2-diylbis(oxy)  
 furétonide                      1-benzofurane-2-carboxylate (ester), propane-2,2-diylbis(oxy)  
 furetonído                      1-benzofurano-2-carboxilato (éster), propano-2,2-diilbis(oxi)

**furoas**

(fluticasoni furoas (96)(57))

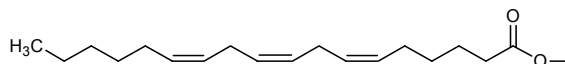
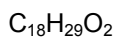
furoate                      furan-2-carboxylate (ester)  
 furoate                      furane-2-carboxylate (ester)  
 furoato                      furano-2-carboxilato (éster)

JAN  
USAN

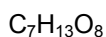
**gamolenas**

(ascorbyli gamolenas (79)(41))

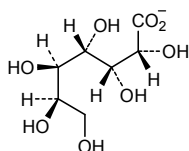
gamolenate (6Z,9Z,12Z)-octadeca-6,9,12-trienoate (ester)  
 gamolénate (6Z,9Z,12Z)-octadéca-6,9,12-triénoate (ester)  
 gamolenato (6Z,9Z,12Z)- octadeca-6,9,12-trienoato (éster)

**gluceptas** (18)

gluceptate D-glycero- D-gulo-heptonate  
 gluceptate D-glycéro- D-gulo-heptonate  
 gluceptato D-glicero-D-gulo-heptonato

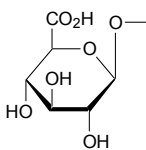


BAN  
 USAN

**glucuronidum**

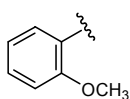
(morphini glucuronidum (92)(54))

glucuronide β-D-glucopyranosiduronic acid (glycoside)  
 glucuronide acide β-D-glucopyranosiduronique (glycoside)  
 glucurónido ácido β-D-glucopiranosidurónico (glicósido)

**guacilum**

(amtolmetinum guacilum (65)(32))

guacil 2-methoxyphenyl (ester)  
 guacil 2-méthoxyphényle (ester)  
 guacilo 2-metoxifenilo (éster)



**hexacetonidum**

(triamcinoloni hexacetonidum (15)(06))

hexacetonide

hexacétonide

hexacetónido

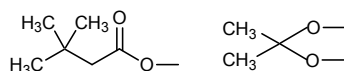
3,3-dimethylbutanoate (ester), propane-2,2-diylbis(oxy)

3,3-diméthylbutanoate (ester), propane-2,2-diylbis(oxy)

3,3-dimetilbutanoato (éster), propano-2,2-diilbis(oxi)

 $C_9H_{17}O_4$ 

USAN

**hibenzas**

(18)

hibenzate

hibenzate

hibenzato

2-(4-hydroxybenzoyl)benzoate

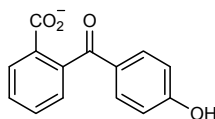
2-(4-hydroxybenzoyl)benzoate

2-(4-hidroxibenzoil)benzoato

 $C_{14}H_9O_4$ 

JAN

USAN: hybenzate

**hyclas**

(62)

hyclate

hyclate

hiclato

ethanol—hydrogen chloride—water (0.5/1/0.5)

éthanol—chlorure d'hydrogène—eau (0.5/1/0.5)

etanol—cloruro de hidrógeno—agua (0.5/1/0.5)

 $0.5 C_2H_5OH \cdot HCl \cdot 0.5 H_2O$ 

USAN

**hydroxynaphthoas**

(bephenii hydroxynaphthoas (11)(05))

hydroxynaphthoate

hydroxynaphthoate

hidroxinaftoato

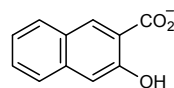
3-hydroxynaphthalene-2-carboxylate

3-hydroxynaphtalène-2-carboxylate

3-hidroxinaftaleno-2-carboxilato

 $C_{11}H_7O_3$ 

BAN



**isetionas** (18)

(stilbamidini isetionas (04)(03))

isetionate 2-hydroxyethane-1-sulfonate  
 isétionate 2-hydroxyéthane-1-sulfonate  
 isetionato 2-hidroxietano-1-sulfonato

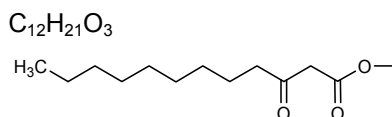
BAN  
 JAN  
 USAN: isethionate

$C_2H_5O_4S$

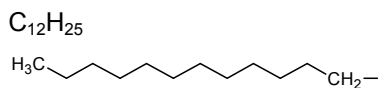
**ketolauras**

(testosteroni ketolauras (16)(07))

ketolaurate 3-oxododecanoate (ester)  
 kétolaurate 3-oxododécanoate (ester)  
 cetolaurato 3-oxododecanoato (éster)

**lauril** (41)

lauril dodecyl  
 lauril dodécyle  
 laurilo dodecilo

**laurilsulfas** (24)

laurilsulfate dodecyl sulfate  
 laurilsulfate sulfate de dodécyle  
 laurilsulfato sulfato de dodecilo

JAN: laurylsulfate

$C_{12}H_{25}O_4S$

**lisetilum**

(cromoglicas lisetilum (72)(35))

lisetil L-lysyl (ester), diethyl (ester)  
 lisétíl L-lysyl (ester), diéthyl (ester)  
 lisetilo L-lisilo (éster), dietilo (éster)

JAN

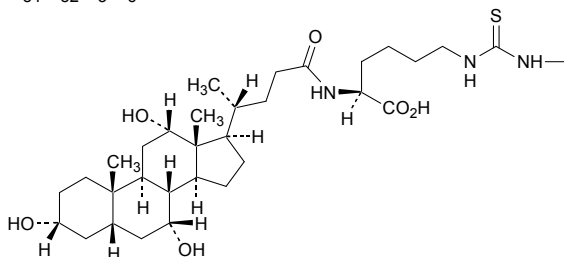
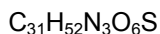
$C_{10}H_{23}N_2O_2$

2 H<sub>3</sub>C-CH<sub>2</sub>-

**lisicolum**

(fluoresceinum lisicolum (89)(51))

lisicol	{N-[(5S)-5-carboxy-5-(3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-amido)pentyl]carbamothioyl}amino
lisicol	{N-[(5S)-5-carboxy-5-(3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-amido)pentyl]carbamothioyl}amino
lisicol	{N-[(5S)-5-carboxy-5-(3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihidroxi-5 $\beta$ -colan-24-amido)pentil]carbamotoiil}amino

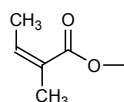
**mebutatum**

(ingenoli mebutas (106)(67))

mebutate	(2Z)-2-methylbut-2-enoate (ester)
mébutate	(2Z)-2-méthylbut-2-énoate (ester)
mebutato	(2Z)-2-metilbut-2-enoato (éster)



USAN

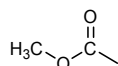
**mecarbilum**

(omecantivum mecarbilum (102)(64))

mecarbil	methoxycarbonyl
mécarbil	méthoxycarbonyle
mecarbilo	metoxicarbonilo

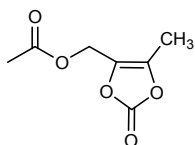


USAN

**medocarilum**

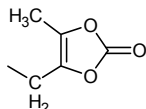
(ceftobiprolum medocarilum (92)(54))

medocaril	[(5-methyl-2-oxo-1,3-dioxol-4-yl)methoxy]carbonyl
médocaril	[(5-méthyl-2-oxo-1,3-dioxol-4-yl)méthoxy]carbonyl
medocarilo	[(5-metil-2-oxo-1,3-dioxol-4-il)metoxi]carbonilo

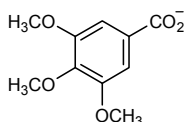
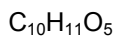
**medoxomilum**

(olmesartanum medoxomilum (86)(48))

(azilsartanum medoxomilum (98)(59))

medoxomil  
médoxomil  
medoxomilo(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl  
(5-méthyl-2-oxo-1,3-dioxol-4-yl)méthyle  
(5-metil-2-oxo-1,3-dioxol-4-il)metiloJAN  
USAN**megallas** (33)megallate  
mégallate  
megallato3,4,5-trimethoxybenzoate  
3,4,5-triméthoxybenzoate  
3,4,5-trimetoxibenzoato

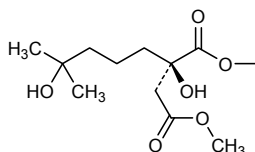
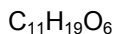
BAN

**mepesuccinatum**

(omacetaxini mepesuccinas (98)(60))

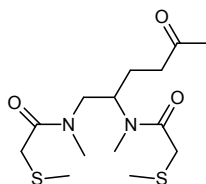
mepesuccinate  
mépésuccinate  
mepesuccinato(2*R*)-2,6-dihydroxy-2-(2-methoxy-2-oxoethyl)-6-methylheptanoate  
(ester)  
(2*R*)-2,6-dihydroxy-2-(2-méthoxy-2-oxoéthyl)-6-méthylheptanoate  
(ester)  
(2*R*)-2,6-dihidroxi-6-metil-2-(2-metoxi-2-oxoetil)heptanoato  
(éster)

USAN

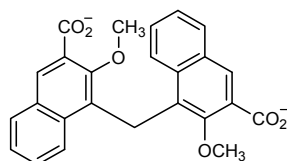


**merpentanum**(technetium (<sup>99m</sup>Tc) nofetumomabum merpentanum (81)(42))merpentan  
merpentan  
merpentánoligo{[*rac*-4,5-bis(2-sulfanyl-κ<sup>2</sup>S-acetamido-κ<sup>2</sup>N)pentanoyl](4-)}  
oligo{[*rac*-4,5-bis(2-sulfanyl-κ<sup>2</sup>S-acétamido-κ<sup>2</sup>N)pentanoyle](4-)}  
oligo{[*rac*-4,5-bis(2-sulfanyl-κ<sup>2</sup>S-acetamido-κ<sup>2</sup>N)pentanoilo](4-)}

USAN

C<sub>9</sub>H<sub>11</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub>**mesilas** (18)(amidefrini mesilas (15)(06))  
(sevitropii mesilas (56)(27))mesilate  
mésilate  
mesilatomethanesulfonate  
méthanesulfonate  
metanosulfonatoBAN  
JAN

USAN: mesylate

CH<sub>3</sub>O<sub>3</sub>SH<sub>3</sub>C-SO<sub>3</sub><sup>-</sup>**metembonas** (27)metembonate  
métembonate  
metembonato4,4'-methylenebis(3-methoxynaphthalene-2-carboxylate)  
4,4'-méthylènebis(3-méthoxynaphtalène-2-carboxylate)  
4,4'-metilenobis(3-metoxinaftaleno-2-carboxilato)C<sub>25</sub>H<sub>18</sub>O<sub>6</sub>**methonitras**

(atropini methonitras (04)(03))

methonitrate  
méthonitrate  
metonitratoN-methyl, nitrate (salt)  
N-méthyl, nitrate (sel)  
N-metil, nitrato (sal)

JAN

CH<sub>3</sub>NO<sub>3</sub>CH<sub>3</sub>— · NO<sub>3</sub><sup>-</sup>



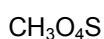
**metilsulfas** (18)

(laudexii metilsulfas (04)(03))  
 (diphemanili metilsulfas (04)(03))  
 (hexocyclii metilsulfas (06)(03))  
 (poldini metilsulfas (13)(!))  
 (toloconii metilsulfas (17)(07))  
 (bevonii metilsulfas (19)(10))  
 (fenclexonii metilsulfas (20)(08))

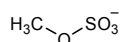
(pentapiperii metilsulfas (26)(12))  
 (rimazolii metilsulfas (26)(12))  
 (roxolonii metilsulfas (33)(15))  
 (amezinii metilsulfas (36)(17))  
 (thiazinamii metilsulfas (36)(17))  
 (mefenidramii metilsulfas (52)(25))  
 (tematropii metilsulfas (64)(31))

metilsulfate  
 métilsulfate  
 metilsulfato

methyl sulfate  
 sulfate de méthyle  
 sulfato de metilo



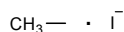
BAN  
 JAN

**metiodidum**

(buzepidi metiodidum (14)(06))

metiodide  
 métiodure  
 metioduro

*N*-methyl, iodide (salt)  
*N*-méthyl, iodure (sel)  
*N*-metilo, ioduro (sal)

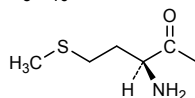
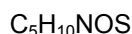
**methionilum**

(pomaglumetadum methionilum (104)(66))

methionil  
 méthionil  
 metionilo

(2*S*)-2-amino-4-(methylsulfanyl)butanoyl (L-methionyl)  
 (2*S*)-2-amino-4-(méthylsulfanyl)butanoyl (L-méthionyl)  
 (2*S*)-2-amino-4-(metilsulfanil)butanoil (L-metionil)

USAN

**metoxilum**

(atecegatranum metoxilum (105)(67))

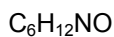
metoxil  
 métoxil  
 metoxilo

methoxy  
 méthoxy  
 metoxi

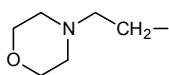


**mofetilum** (65)

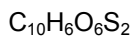
mofetil 2-(morpholin-4-yl)ethyl  
 mofétil 2-(morpholin-4-yl)éthyle  
 mofetilo 2-(morfolin-4-il)etilo



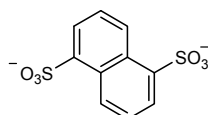
BAN  
 JAN  
 USAN

**napadisilas** (18)  
(aclatonii napadisilas (44)(20))

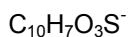
napadisilate naphthalene-1,5-disulfonate  
 napadisilate naphtalène-1,5-disulfonate  
 napadisilato naftaleno-1,5-disulfonato



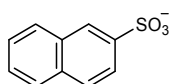
BAN  
 JAN  
 USAN: napadisylate

**napsilas** (18)

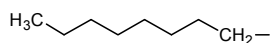
napsilate naphthalene-2-sulfonate  
 napsilate naphtalène-2-sulfonate  
 napsilato naftaleno-2-sulfonato



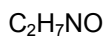
BAN  
 USAN: napsylate

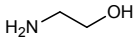
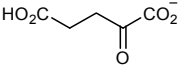
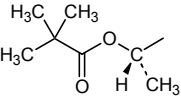
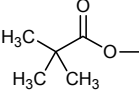
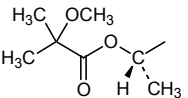
**octilum** (65)

octil octyl  
 octil octyle  
 octilo octilo

**olaminum** (22)

olamine 2-aminoethanol  
 olamine 2-aminoéthanol  
 olamina 2-aminoetanol



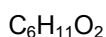
JAN USAN		
<b>oxogluras</b> (22)		
oxoglurate oxoglurate oxoglurato	hydrogen 2-oxopentanedioate hidrogéno-2-oxopentanedioate hidrógeno-2-oxopentanedioato	
	$C_5H_5O_5$	
		
<b>pamoate -&gt; see embonate</b>		
<b>pentexilum</b> (65)		
pentexil pentexil pentexilo	<i>rac</i> -1-[(2,2-dimethylpropanoyl)oxy]ethyl <i>rac</i> -1-[(2,2-diméthylpropanoyl)oxy]éthyle <i>rac</i> -1-[(2,2-dimetilpropanoil)oxi]etilo	
	$C_7H_{13}O_2$	
		and enantiomer et énantiomère y enantiómero
<b>pivalas</b> (18) (etilefrini pivalas (50)(24))		
pivalate pivalate pivalato	2,2-dimethylpropanoate (ester) 2,2-diméthylpropanoate (ester) 2,2-dimetilpropanoato (éster)	
	$C_5H_9O_2$	
BAN JAN USAN		
<b>pivoxetilum</b> (54)		
pivoxetil pivoxétíl pivoxetilo	<i>rac</i> -1-[(2-methoxy-2-methylpropanoyl)oxy]ethyl <i>rac</i> -1-[(2-méthoxy-2-méthylpropanoyl)oxy]éthyle <i>rac</i> -1-[(2-metoxi-2-metilpropanoil)oxi]etilo	
	$C_7H_{13}O_3$	
BAN USAN		and enantiomer et énantiomère y enantiómero

**pivoxil** (44)

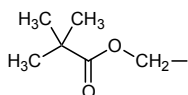
(tebipenemum pivoxilum (87)(46))

(valproatum pivoxilum (51)(24))

pivoxil [(2,2-dimethylpropanoyl)oxy]methyl  
 pivoxil [(2,2-diméthylpropanoyl)oxy]méthyle  
 pivoxilo [(2,2-dimetilpropanoil)oxi]metilo

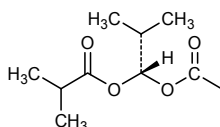
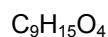


BAN  
 JAN

**placarbilum**

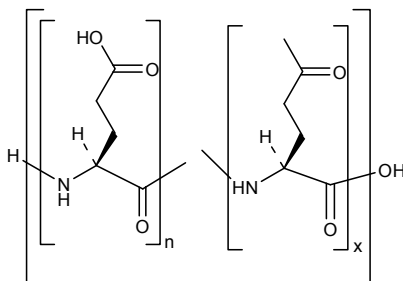
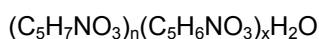
(arbaclofenum placarbilum (97)(59))

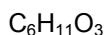
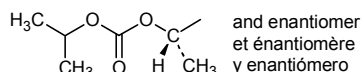
placarbil {(1*R*)-2-methyl-1-[(2-methylpropanoyl)oxy]propoxy}carbonyl  
 (linked to an amino group)  
 placarbil {(1*R*)-2-méthyl-1-[(2-méthylpropanoyl)oxy]propoxy}carbonyl (lié à  
 un groupe amino)  
 placarbilo {(1*R*)-2-metil-1-[(2-metilpropanoil)oxi]propoxi}carbonil (unido a  
 un grupo amino)

**poliglumexum**

(paclitaxelum poliglumexum (90)(52))

poliglumex [poly(L-glutamic acid)]oligo-γ-oyl (ester)  
 poliglumex [poly(acide L-glutamique)]oligo-γ-oyle (ester)  
 poliglumex [poli(ácido L-glutámico)]oligo-γ-oilo (ester)

**probutate -> see buteprate**

**proxetilum** (58)proxetil  
proxétíl  
proxetilo*rac*-1-[[propan-2-yloxy]carbonyl]oxy}ethyl  
*rac*-1-[[propan-2-yloxy]carbonyl]oxy}éthyle  
*rac*-1-[[propan-2-iloxi]carbonil]oxi}etiloBAN  
JAN  
USAN**satetraxetanum**(lutetium ( $^{177}\text{Lu}$ ) lilotomabum satetraxetanum (112)(74))

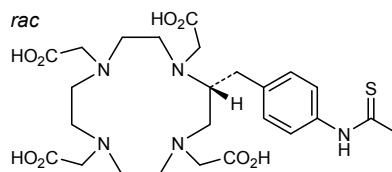
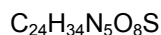
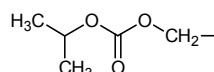
satetraxetan

*rac*-(4-[[[(2*R*)-1,4,7,10-tetrakis(carboxymethyl)-1,4,7,10-tetraazacyclododecan-2-yl]methyl]phenyl]carbamoithioyl

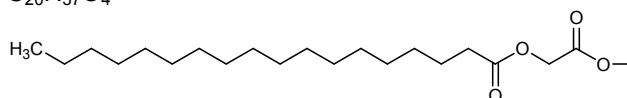
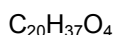
satétraxétan

*rac*-(4-[[[(2*R*)-1,4,7,10-tétrakis(carboxyméthyl)-1,4,7,10-tétrazacyclododécán-2-yl]méthyl]phényl]carbamoithioyle

satetraxetán

*rac*-(4-[[[(2*R*)-1,4,7,10-tetrakis(carboximetil)-1,4,7,10-tetraazaciclododecan-2-il]metil]fenil]carbamoitioilo**soproxilum** (82)soproxil  
soproxil  
soproxilo[[propan-2-yloxy]carbonyl]oxy}methyl  
[[propan-2-yloxy]carbonyl]oxy}méthyle  
[[propan-2-iloxi]carbonil]oxi}metiloBAN  
JAN**steaglas** (18)

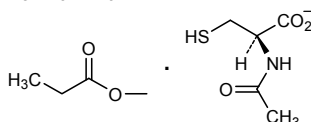
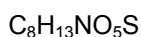
(prednisoloni steaglas (16)(07))

steaglate  
stéaglate  
esteaglató2-(octadecanoyloxy)acetate (ester)  
2-(octadécánoyloxy)acétate (ester)  
2-(octadecanoiloxi)acetato (éster)

**stinopras**

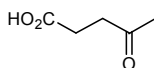
(erythromycini stinopras (58)(27))

stinoprate *N*-acetyl-L-cysteinate (salt), propanoate (ester)  
 stinoprate *N*-acétyl-L-cystéinate (sel), propanoate (ester)  
 estinoprato *N*-acetil-L-cisteinato (sal), propanoato (éster)

**succinilum**

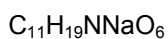
(norfloxacinum succinilum (58)(28))

succinil 3-carboxypropanoyl  
 succinil 3-carboxypropanoyle  
 succinilo 3-carboxipropanoilo

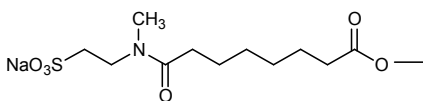
**suleptanas**

(methylprednisoloni suleptanas (56)(27))

suleptanate 8-[methyl(2-sulfoethyl)amino]-8-oxooctanoate (ester),  
 monosodium salt  
 suleptanate 8-[méthyl(2-sulfoéthyl)amino]-8-oxooctanoate (ester), sel  
 monosodique  
 suleptanato 8-[metil(2-sulfoetil)amino]-8-oxooctanoato (éster), sal  
 monosódica

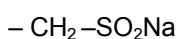


BAN  
 JAN  
 USAN

**sulfoxylas**

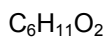
(phenarsoni sulfoxylas (01)(!))

sulfoxylate sulfinomethyl, monosodium salt  
 sulfoxylate sulfinométhyle, sel monosodique  
 sulfoxilato sulfinometilo, sal monosódica

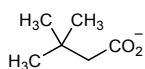


**tebutas** (22)

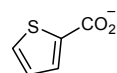
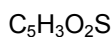
tebutate 3,3-dimethylbutanoate  
 tébutate 3,3-diméthylbutanoate  
 tebutato 3,3-dimetilbutanoato



JAN  
 USAN

**tenoas** (52)

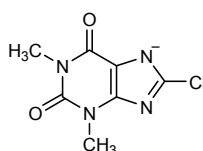
tenoate thiophene-2-carboxylate  
 ténoate thiophène-2-carboxylate  
 tenoato tiofeno-2-carboxilato

**teoclas** (18)  
(promethazini teoclas (10)(04))

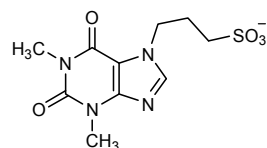
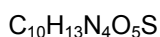
teoclate 8-chloro-1,3-dimethyl-2,6-dioxo-1,2,3,6-dihydro-7*H*-purin-7-ide  
 téoclate 8-chloro-1,3-diméthyl-2,6-dioxo-1,2,3,6-dihydro-7*H*-purin-7-ure  
 teoclato 8-cloro-1,3-dimetil-2,6-dioxo-1,2,3,6-dihidro-7*H*-purin-7-uro



BAN  
 JAN

**teprosilas** (29)

teprosilate 3-(1,3-dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7*H*-purin-7-yl)propane-1-sulfonate  
 téprosilate 3-(1,3-diméthyl-2,6-dioxo-1,2,3,6-tétrahydro-7*H*-purin-7-yl)propane-1-sulfonate  
 teprosilato 3-(1,3-dimetil-2,6-dioxo-1,2,3,6-tetrahidro-7*H*-purin-7-il)propano-1-sulfonato

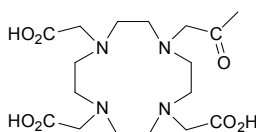
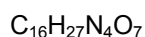


**tetraxetanum** (92)(yttrium ( $^{90}\text{Y}$ ) tacatuzumabum tetraxetanum (93)(55)(yttrium ( $^{90}\text{Y}$ ) clivatuzumabum tetraxetanum (102)(64))

tetraxetan 2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclodecan-1-yl]acetyl

tétraxétan 2-[4,7,10-tris(carboxyméthyl)-1,4,7,10-tétraazacyclodécán-1-yl]acétyle

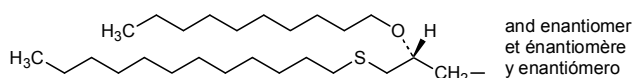
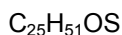
tetraxetán 2-[4,7,10-tris(carboximetil)-1,4,7,10-tetraazaciclodecan-1-il]acetilo

**tidoxilum**

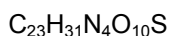
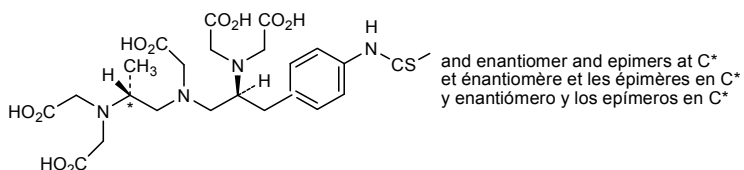
(fozivudinum tidoxilum (73)(36))

(fosfluridinum tidoxilum (93)(55))

(fosalvudinum tidoxilum (95)(57))

tidoxil *rac*-2-(decyloxy)-3-(dodecylsulfanyl)propyl  
tidoxil *rac*-2-(décyloxy)-3-(dodécylsulfanyl)propyle  
tidoxilo *rac*-2-(deciloxi)-3-(dodecilsulfanil)propilo**tiuxetanum**

(ibritumomabum tiuxetanum (86)(48))

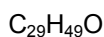
tiuxetan *rac*-*N*-(4-((2*S*)-2-[bis(carboxymethyl)amino]-3-(((2*RS*)-2-[bis(carboxymethyl)amino]propyl)(carboxymethyl)amino]propyl)phenyl)carbamothioyltiuxétan *rac*-*N*-(4-((2*S*)-2-[bis(carboxyméthyl)amino]-3-(((2*RS*)-2-[bis(carboxyméthyl)amino]propyl)(carboxyméthyl)amino]propyl)phényl)carbamothiocytetiuxetán *rac*-*N*-(4-((2*S*)-2-[bis(carboximetil)amino]-3-(((2*RS*)-{2-[bis(carboximetil)amino]propil}(carboximetil)amino]propil)fenil)carbamotiioiloBAN  
JAN  
USAN



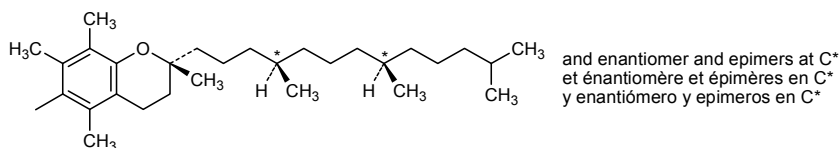
**tocoferilum**

(tretinoinum tocoferilum (66)(32))

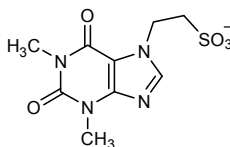
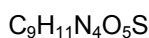
tocoferil	<i>rac</i> -(2 <i>R</i> )-2,5,7,8-tetramethyl-2-[(4 <i>E</i> ,8 <i>E</i> )-4,8,12-trimethyltridecyl]-3,4-dihydro-2 <i>H</i> -1-benzopyran-6-yl
tocoféril	<i>rac</i> -(2 <i>R</i> )-2,5,7,8-tétraméthyl-2-[(4 <i>E</i> ,8 <i>E</i> )-4,8,12-triméthyltridécy]-3,4-dihydro-2 <i>H</i> -1-benzopyran-6-yl
tocoferilo	<i>rac</i> -(2 <i>R</i> )-2,5,7,8-tetrametil-2-[(4 <i>E</i> ,8 <i>E</i> )-4,8,12-trimetiltridecil]-3,4-dihidro-2 <i>H</i> -1-benzopiran-6-ilo



JAN

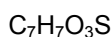
**tofesilas** (27)

tofesilate	2-(1,3-dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-7 <i>H</i> -purin-7-yl)ethane-1-sulfonate
tofésilate	2-(1,3-diméthyl-2,6-dioxo-1,2,3,6-tétrahydro-7 <i>H</i> -purin-7-yl)éthane-1-sulfonate
tofesilato	2-(1,3-dimetil-2,6-dioxo-1,2,3,6-tetrahidro-7 <i>H</i> -purin-7-il)etano-1-sulfonato

**tosilas** (18)

(bretylilii tosilas (10)(04))	(trethinii tosilas (14)(06))
(itramini tosilas (13)(05))	(xylamidini tosilas (17)(!))
(troxonii tosilas (13)(05))	(emilii tosilas (37)(17))
(troxypyrrilii tosilas (13)(05))	(suplatasti tosilas (104)(65))

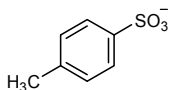
tosilate	4-methylbenzene-1-sulfonate
tosilate	4-méthylbenzène-1-sulfonate
tosilato	4-metilbenceno-1-sulfonato



BAN

JAN

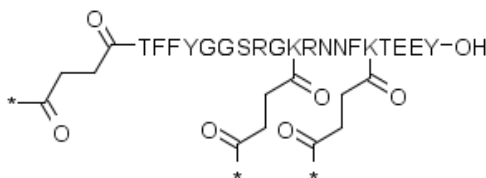
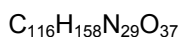
USAN: tosylate



**trevatidum**

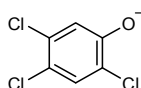
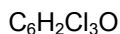
(paclitaxelum trevatidum (109)(71))

trevatide	[[[318-L-threonine(P>T <sup>1</sup> ),324-L-serine(C>S <sup>7</sup> ), 325-L-arginine(G>R <sup>8</sup> ),327-L-lysine(N>K <sup>10</sup> ),332-L-lysine(N>K <sup>15</sup> )] human amyloid beta A4 protein precursor-(318-336)-peptide)- N <sup>2.1</sup> ,N <sup>6.10</sup> ,N <sup>6.15</sup> -triy]tris(1,4-dioxobutane-4,1-diyl)
trévátide	[[[318-L-thréonine(P>T <sup>1</sup> ),324-L-sérine(C>S <sup>7</sup> ), 325-L-arginine(G>R <sup>8</sup> ),327-L-lysine(N>K <sup>10</sup> ),332-L-lysine(N>K <sup>15</sup> )] précurseur de la protéine amyloïde bêta A4 humaine-(318-336)- peptide)-N <sup>2.1</sup> ,N <sup>6.10</sup> ,N <sup>6.15</sup> -trii]tris(1,4-dioxobutane-4,1-diyle)
trevatida	[[[318-L-treonina(P>T <sup>1</sup> ),324-L-serina(C>S <sup>7</sup> ), 325-L-arginina(G>R <sup>8</sup> ),327-L-lisina(N>K <sup>10</sup> ),332-L-lisina(N>K <sup>15</sup> )] precursor de la proteína amiloide beta A4 humana-(318-336)- péptido)-N <sup>2.1</sup> ,N <sup>6.10</sup> ,N <sup>6.15</sup> -trii]tris(1,4-dioxobutano-4,1-diilo)

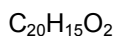
**triclofenas** (18)

(alazanini triclofenas (13)(05))

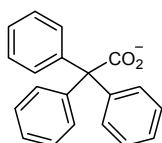
triclofenate	2,4,5-trichlorophenolate
triclofénate	2,4,5-trichlorophénolate
triclofenato	2,4,5-triclorofenolato

**trifenatas** (104)

trifenatate	triphenylacetate
trifénatate	triphénylacétate
trifenatato	trifenilacetato



USAN

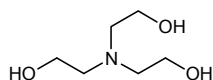
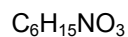


**triflutas** (64)triflutate  
triflutate  
triflutatotrifluoroacetate  
trifluoroacétate  
trifluoroacetato

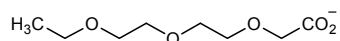
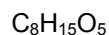
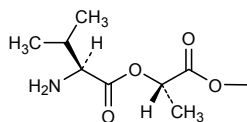
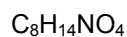
USAN

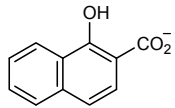
**trolaminum** (25)trolamine  
trolamine  
trolamina2,2',2''-nitrilotriethanol  
2,2',2''-nitrilotriéthanol  
2,2',2''-nitrilotrietanol

USAN

**troxundas** (46)troxundate  
troxundate  
troxundato[2-(2-ethoxyethoxy)ethoxy]acetate  
[2-(2-éthoxyéthoxy)éthoxy]acétate  
[2-(2-etoxietoxi)etoxi]acetato

BAN

**valactas** (101)valactate  
valactate  
valactato(2S)-2-[[[(2S)-2-amino-3-methylbutanoyl]oxy]propanoate (ester)  
(2S)-2-[[[(2S)-2-amino-3-méthylbutanoyl]oxy]propanoate (ester)  
(2S)-2-[[[(2S)-2-amino-3-metilbutanoil]oxi]propanoato (éster)

**xinafoas** (63)xinafoate  
xinafoate  
xinafoato1-hydroxynaphthalene-2-carboxylate  
1-hydroxynaphtalène-2-carboxylate  
1-hidroxi-naftaleno-2-carboxilato $C_{11}H_7O_3$ BAN  
JAN  
USAN

\* \* \* \* \*

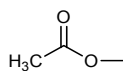
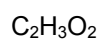
**ANNEX 1**

The following groups and elements have also been published together with INNs:

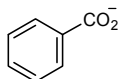
**acetas**

acetate  
acétate  
acetato

ethanoate (ester)  
éthanoate (ester)  
etanoato (éster)

**benzoas**

benzoate  
benzoate  
benzoato

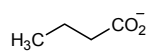
**bromidum**

bromide  
bromure  
bromuro

**butyras**

butyrate  
butyrate  
butirato

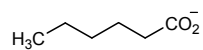
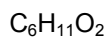
butanoate  
butanoate  
butanoato



**caproas**

caproate  
caproate  
caproato

hexanoate  
hexanoate  
hexanoato

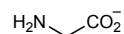
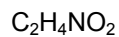
**chloridum**

chloride  
chlorure  
cloruro

**glycinas**

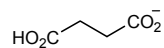
glycinate  
glycinate  
glicinato

2-aminoacetate  
2-aminoacétate  
2-aminoacetato

**hemissuccinas**

hemisuccinate  
hémisuccinate  
hemisuccinato

hydrogen butanedioate  
hydrogénobutanedioate  
hidrógenobutanodioato

**iodidum**

iodide  
iodure  
ioduro

**isopropylis**

isopropyl  
isopropyle  
isopropilo

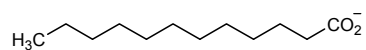
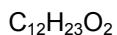
propan-2-yl  
propan-2-yile  
propan-2-ilo



**lauras**

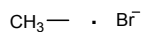
laurate  
laurate  
laurato

dodecanoate  
dodécanoate  
dodecanoato

**methylbromidum**

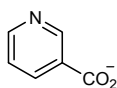
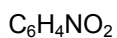
methylbromide  
méthylbromure  
metilbromuro

*N*-methyl, bromide (salt)  
*N*-méthyl, bromure (sel)  
*N*-metil, bromuro (sal)

**nicotinas**

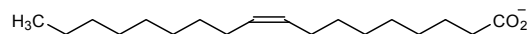
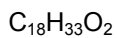
nicotinate  
nicotinate  
nicotinato

pyridine-3-carboxylate  
pyridine-3-carboxylate  
piridina-3-carboxilato

**oleas**

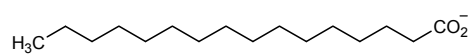
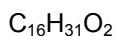
oleate  
oléate  
oleato

(9*Z*)-octadec-9-enoate  
(9*Z*)-octadéc-9-énoate  
(9*Z*)-octadec-9-enoato

**palmitas**

palmitate  
palmitate  
palmitato

hexadecanoate  
hexadécanoate  
hexadecanoato



**perchloras**

perchlorate  
perchlorate  
perclorato

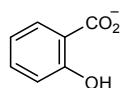
**potassii** (preferred Latin name : kalii)

potassium  
(de) potassium  
(de) potasio

**salicylas**

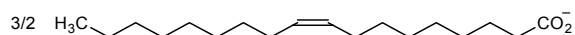
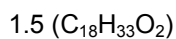
salicylate  
salicylate  
salicilato

2-hydroxybenzoate  
2-hydroxybenzoate  
2-hidroxibenzoato

**sesquioleas**

sesquioleate  
sesquioléate  
sesquioleato

(9Z)-octadec-9-enoate (1:1.5)  
(9Z)-octadéc-9-énoate (1:1,5)  
(9Z)-octadec-9-enoato (1:1,5)

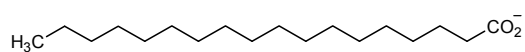
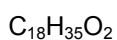
**sodii** (preferred Latin name: natrii)

sodium  
(de) sodium  
(de) sodio

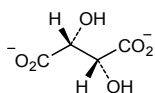
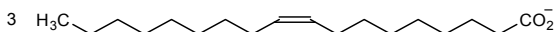
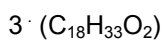
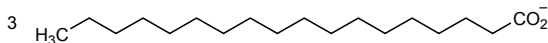
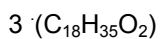
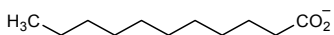
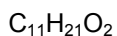
**stearas**

stearate  
stéarate  
estearato

octadecanoate  
octadécanoate  
octadecanoato



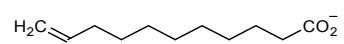
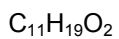


**sulfas**sulfate  
sulfate  
sulfato**tartras**tartrate  
tartrate  
tartrato(2*R*,3*R*)-2,3-dihydroxybutanedioate  
(2*R*,3*R*)-2,3-dihydroxybutanedioate  
(2*R*,3*R*)-2,3-dihidroxiutanodioato**trioleas**trioleate  
trioleate  
trioleatotris[(9*Z*)-octadec-9-enoate]  
tris[(9*Z*)-octadéc-9-énoate]  
tris[(9*Z*)-octadec-9-enoato]**tristearas**tristearate  
tristéarate  
triéstearatotris(octadecanoate)  
tris(octadécanoate)  
tris(octadecanoato)**undecylas**undecylate  
undécylate  
undecilatoundecanoate  
undécanoate  
undecanoato

**undecylenas**

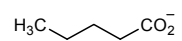
undecylenate  
undécylénate  
undecilenato

undec-10-enoate  
undéc-10-énoate  
undec-10-enoato

**valeras**

valerate  
valérate  
valerato

pentanoate  
pentanoate  
pentanoato



\* \* \* \* \*

## ANNEX 2

## Transliteration of Greek letters in English, French and Spanish

Upper case	Lower case	English	French	Spanish
A	$\alpha$	alfa (and <b>not</b> alpha)	alfa (and <b>not</b> alpha)	alfa
B	$\beta$	beta	bêta	beta
$\Gamma$	$\gamma$	gamma	gamma	gamma
$\Delta$	$\delta$	delta	delta	delta
E	$\varepsilon$	epsilon	epsilon	épsilon
Z*	$\zeta^*$	zeta	zêta	<b><u>d</u>seta</b>
H	$\eta$	eta	êta	eta
$\Theta^*$	$\theta^*$	theta	thêta	<b><u>z</u>eta</b>
I	$\iota$	iota	iota	iota
K	$\kappa$	kappa	kappa	kappa
$\Lambda$	$\lambda$	lambda	lambda	lambda
M	$\mu$	mu	mu	mi
N	$\nu$	nu	nu	ni
$\Xi$	$\xi$	xi	xi	xi
O	$\omicron$	omicron	omicron	ómicron
$\Pi$	$\pi$	pi	pi	pi
P	$\rho$	rho	rhô	ro
$\Sigma$	$\sigma$	sigma	sigma	sigma
T	$\tau$	tau	tau	tau
Y	$\upsilon$	upsilon	upsilon	ípsilon
$\Phi$	$\phi$	phi	phi	fi
X	$\chi$	chi	khi	ji
$\Psi$	$\psi$	psi	psi	psi
$\Omega$	$\omega$	omega	oméga	omega

\* Due to possible confusion of the transliteration of these two Greek letters, the future use of the Greek letters  $\zeta$  and  $\theta$  is discouraged.



## ANNEX 3

**Standardization of the Spanish version of INN**

The spelling of the Spanish version of the INN has been standardized in collaboration with a Spanish nomenclature group and the WHO Secretariat (1, 2).

The criteria for standardization may be summarized as follows:

1. keep as close as possible to the present INN (minimum changes)
2. keep "stems" uniform
3. avoid lengthening of words
4. base changes on a combination of:
  - 4.1 acceptance wherever possible of the English and/or French (original) name
  - 4.2 acceptance wherever possible of the existing Spanish name
  - 4.3 consideration of the Spanish phonetics and spelling in special cases.

To be more concise, the Spanish endings similar to the English endings are not shown in this list, even for unusual cases in Spanish (i.e. –cept).

**Rules for the Spanish version of the INN****English Spanish**

-ac	-aco	
-ame	-amo	
-an	-án	except: -orfano, -sulfano, -oxano
-ane	-ano	except: insulina defalana/insulina isofana
-ase	-asa	
-ate	-ato	
-barb	-barbo	
benze	bence	
benzi	benci	
chlo	clo	
-el	-el	
-en(e)	-eno	except: -bén, -bufén, -gén (for –gene in English), -rsén (for –rsen in English)
-er	-ero	
-fos or		
-phos	-fos	
-ic	-ico	
-ide	-ida	except: -óxido, -ósido, -glusido, iodide (ioduro), chloride (cloruro), etc.
-il (e) and		
-yl	-ilo	except: -dil, -pril, -guanil, -azenil
-ime	-ima	
-imus	-imús	
-in (e)	-ina	except: -dipino, -nixino, -oxacino, -platino
-it(e)	-ita	except: -arit
-ium	-io	
k-	k-	
-ka-	-ca-	except: -kacina, -kalim, -lukast
-ke-	-que-	except: -kefamide
-kefalin	-cefalina	
khe	ke	
-ki-	-qui-	except: leukina, rokitamicina
-kin-	-kin-	in monoclonal antibodies, no change to –k(i)(in)-
-ko-	-co-	

-ku-	-cu-	
-ky-	-qui-	
-ll-	-l-	
-mf-	-mf- <sup>1</sup>	except: anfetaminas (derivatives), alcanfor (derivatives), cloranfenicol (derivatives and analogues)
-nb-	-nb- <sup>1</sup>	
-np-	-np- <sup>1</sup>	
-ol(e)	-ol	
-ome	-omo	except: cef..oma
-on	-on	
-one	-ona	
-ou-	-u-	
-pafant	-pafant	
ph	f	
-prim	-prima	
qua-	qua-	
-qua-	-cua-	
quo-	quo-	
-quo-	-cuo-	
sf-	esf-	
sp-	esp-	
st-	est-	
th	t	
y	i	

<sup>1</sup>While *st-* and *sp-* are changed into *est-* and *esp-* respectively, the letter sequences *-mf-*, *-nb-*, and *-np-*, although unusual in Spanish have been retained for the following reasons:

- international linguistic requirements; the established philosophy takes precedence over spelling
- correspondence with the English and French versions; fewer changes to the first Spanish versions (previous cumulative lists).

Last update: June 2015

## References

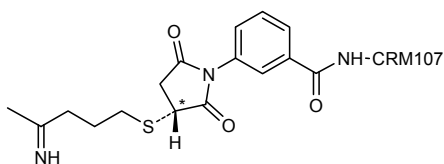
- Dal Re Saavedra, M.A. et al. Propuesta de unificación de las denominaciones comunes internacionales de las sustancias farmacéuticas en lengua española. [Proposal for unification of the international nonproprietary names for pharmaceutical substances in the Spanish language.] *Anales de la Real Academia de Farmacia*, 1985, **51**:289-300:
- Comments on Appendix to: article on "Unificación de las denominaciones comunes internacionales de las sustancias farmacéuticas" and on listing received in Madrid in September 1985 (Pharm S/Nom 1105 and 1105 Add: 1).

## ANNEX 4

4.1. Names for toxins  
(active or inactivated proteins)**aldifitoxum**

(transferrinum aldifitoxum (95)(56))

- aldifitox 3-{*rac*-3-[(4-imino-4-ylbutyl)sulfanyl]-2,5-dioxopyrrolidin-1-yl}benzoyl attached to a primary amine group of diphtheria [550-L-phenylalanine]toxin from *Corynebacterium diphtheriae*-(26-560)-peptide
- aldifitox 3-{*rac*-3-[(4-imino-4-ylbutyl)sulfanyl]-2,5-dioxopyrrolidin-1-yl}benzoyle lié à une amine primaire du [550-L-phénylalanine]toxine diphtérique de *Corynebacterium diphtheriae*-(26-560)-peptide
- aldifitox 3-{*rac*-3-[(4-imino-4-ilobutil)sulfanil]-2,5-dioxopirrolidin-1-il}benzoilo ligado a una amina primaria de la [550-L-fenilalanina]toxina diftérica del *Corynebacterium diphtheriae*-(26-560)-péptido

and epimer at C\*  
et l'épimère en C\*  
y el epímero al C\*

H <sub>2</sub> N-CRM107=	GADDVVDSSK	SFVMENFSSY	HGTKPGYVDS	IQKGIQKPKS
	GTQGNYYDDW	KGFYSTDNKY	DAAGYSVDNE	NPLSGKAGGV
	VKVYYPGLTK	VLALKVDNAE	TIKKELGLSL	TEPLMEQVGT
	EEFIKRFGDG	ASRVVLSLPF	AEGSSSVEYI	NNWEQAKALS
	VELEINFETR	GKRGQDAMYE	YMAQACAGNR	VRRSVGSSLS
	CINLDWDVIR	DKTKTKIESL	KEHGPIKNKM	SESPNKTVSE
	EKAKQYLEEF	HQTALEHPEL	SELKTVTGTN	PVFAGANYAA
	WAVNVAQVID	SETADNLEKT	TAALSILPGI	GSMVGIADGA
	VHHNTEEIVA	QSIALSSLMV	AQAIPLVGEL	VDIGFAAYNF
	VESIINLFQV	VHNSYNRPAY	SPGHKTQPFL	HDGYAVSWNT
	VEDSIIRTGF	QGESGHDIKI	TAENTPLPIA	GVLLPTIPGK
	LDVNKSKTHI	SVNGRKIRMR	CRAIDGDVTF	CRPKSPVYVG
	NGVHANLHVA	FHRSSSEKIH	SNEISSDSIG	VLGYQKTVDH
	TKVNFKLSLF	FEIKS		

**aritoxum**

(dorlimomabum aritoxum (66)(32))

(telimomabum aritoxum (66)(32))

(zolimomabum aritoxum (80)(41))

- aritox ricin A chain
- aritox chaîne A de la ricine
- aritox cadena A de la ricina

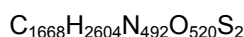
**besudotoxum**

(cintredekinum besudotoxum (92)(54))

besudotox L-lysyl-L-alanyl-L-serylglycylglycine (linker) fusion protein with des-(365-380)-[Asn<sup>364</sup>, Val<sup>407</sup>, Ser<sup>515</sup>, Gln<sup>590</sup>, Gln<sup>606</sup>, Arg<sup>613</sup>]exotoxin A (*Pseudomonas aeruginosa*)-(251-613)-peptide (toxin with region IA and first 16 residues of region IB deleted)

bésudotox L-lysyl-L-alanyl-L-sérylglycylglycine (peptide de liaison) protéine de fusion avec le dès-(365-380)-[Asn<sup>364</sup>, Val<sup>407</sup>, Ser<sup>515</sup>, Gln<sup>590</sup>, Gln<sup>606</sup>, Arg<sup>613</sup>]exotoxine A (*Pseudomonas aeruginosa*)-(251-613)-peptide (toxine dont la région IA et les 16 premiers résidus de la région IB ont été supprimés)

besudotox L-lisil-L-alanil-L-serilglicilglicina (péptido de enlace) proteína de fusión con el des-(365-380)-[Asn<sup>364</sup>, Val<sup>407</sup>, Ser<sup>515</sup>, Gln<sup>590</sup>, Gln<sup>606</sup>, Arg<sup>613</sup>]exotoxina A (*Pseudomonas aeruginosa*)-(251-613)- péptido (toxina de la que se han suprimido la región IA y les 16 primeros restos de la región IB)



KASGGPEGGS	LAALTAHQAC	HLPLETFTRH	RQPRGWEQLE	QCGYPVQRLV	50
ALYLAARLSW	NQVDQVIRNA	LASPGSGGDL	GEAIREQPEQ	ARLALTLAAA	100
ESERFVRQGT	GNDEAGAANG	PADSGDALLE	RNYPTGAEFL	GDGGDVSFST	150
RGTQNWTVR	LLQHRQLEE	RGYVFGYHG	TFLEAAQSIV	FGGVRARSQD	200
LDAIWRGFYI	AGDPALAYGY	AQDQEPDARG	RIRNGALLRV	YVPRSSLPGF	250
YRTSLTLAAP	EAGEVERLI	GHPLPLRLDA	ITGPEEEGGR	LETILGWPLA	300
ERTVVIIPSAI	PTDPRNVGGD	LDPSSIPDQE	QAISALPDYA	SQPGQPPRED	350
LR					352

Disulfide bridge location / Position du pont disulfure / Posición del puente disulfuro

20-42

**bogatoxum**

(citatumzumabum bogatoxum (99)(61))

bogatox 12-mer linker [furin proteolytic cleavage site from *Pseudomonas* exotoxin A (298-309 precursor fragment)] (1-12) -*Bougainvillea spectabilis* Willd bouganin [rRNA N-glycosidase, type I ribosome inactivating protein (RIP)] fragment (27-276 from precursor, V149>A, D153>A, Y159>N, I178>A) (13-262)

bogatox 12-mer linker [site de clivage protéolytique par la furine, de *Pseudomonas* exotoxine A (fragment 298-309 du précurseur)] (1-12) -fragment de la bouganine [N-glycosidase de l'ARNr, protéine de type I inactivant le ribosome (RIP)] de *Bougainvillea spectabilis* Willd (27-276 du précurseur, V149>A, D153>A, Y159>N, I178>A) (13-262)

bogatox 12-mero de enlace [secuencia de ruptura proteolítica por furina, de la exotoxina A de *Pseudomonas* (fragmento 298-309 del precursor)] (1-12) -fragmento de la buganina [N-glicosidasa de ARNr, proteína de tipo I inactivadora de ribosomas (RIP)] de *Bougainvillea spectabilis* Willd (27-276 del precursor, V149>A, D153>A, Y159>N, I178>A) (13-262)

TRHRQPRGWE	QLYNTVSFNL	GEAYEYPTFI	QDLRNELAKG	TPVCQLPVTL	50
QTIADDKRFV	LVDITTTSKK	TVKVAIDVTD	VYVVGYYQDKW	DGKDRAVFLD	100
KVPTVATSKL	FPGVNTRVTL	TFDGSYQKLV	NAAKADRKAL	ELGVNKLEFS	150
IEAIHGKTIN	GQEAAKFFLI	VIQMVSEAR	FKYIETEVVD	RGLYGSFKPN	200
FKVLNLENNW	GDISDAIHKS	SPQCTTINPA	LQLISPSNDP	WVNVKVSQIS	250
PDMGILKFKS	SK				262



**cridificarum**

(vanutidum cridificarum (100)(62))

- cridificar oligo[N<sup>6-Lys</sup>-(sulfanylacetyl)]-[52-glutamic acid(G>E)]diphtheria toxin  
*Corynebacterium diphtheriae*
- cridificar oligo[N<sup>6-Lys</sup>-(sulfanylacétyle)]-[52-acide glutamique(G>E)]toxine diphtérique  
*Corynebacterium diphtheriae*
- cridificar oligo[N<sup>6-Lys</sup>-(sulfanilacetil)]-[52-ácido glutámico G>E)]toxina diftérica  
*Corynebacterium diphtheriae*

GADDVVDSSK	SFVMENFSSY	HGTKPGYVDS	IQKGIQKPKS	GTQGNYYDDDW	50
KEFYSTDNKY	DAAGYSVDNE	NPLSGKAGGV	VKVTPGLTK	VLALKVDNAE	100
TIKKELGSL	TEPLMEQVGT	EEFIKRFDGD	ASRVVLSLPF	AEGSSSVEYI	150
NNWEQAKALS	VELEINFETR	GKRGQDAME	YMAQACAGNR	VRRSVGSSLS	200
CINLDWDVIR	DKTKTKIESL	KEHGPIKNKM	SESPNKTVSE	EKAKQYLEEF	250
HQTALEHPEL	SELKTVTGTN	PVFAGANYAA	WAVNVAQVID	SETADNLEKT	300
TAALSILPGI	GSMGIADGA	VHHNTEEIVA	QSIALSSLMV	AQAIPLVGEL	350
VDIGFAAYNF	VESIINLFQV	VHNSYNRPAY	SPGHKTQPF	HDGYAVSWNT	400
VEDSIIRTGF	QGESHGDIKI	TAENTPLPIA	GVLLPTIPGK	LDVNKSKTHI	450
SVNGRIRMR	CRAIDGDVTF	CRFKSPVYVG	NGVHANLHVA	FHRSSSEKIH	500
SNEISSDSIG	VLGYQKTVDH	TKVNSKLSLF	FEIKS		535

**diftitoxum**

(denileukinum diftitoxum (78)(40))

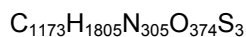
- diftitox N-L-methionyl[387-L-histidine-388-L-alanine]-(1-388)-toxin (*Corynebacterium diphtheriae* strain C7) (388→...) (fusion protein component)
- diftitox N-L-méthionyl[387-L-histidine-388-L-alanine]-(1-388)-toxine (souche C7 de *Corynebacterium diphtheriae*)-(388→...) (composante de protéine de fusion)
- diftitox N-L-metionil[387-L-histidina-388-L-alanina]-(1-388)-toxina (cepa C7 de *Corynebacterium diphtheriae*) (388→...) (componente de proteína de fusión)
- USAN

**estafenatoxum**

(naptumomabum estafenatoxum (96)(58))

- estafenatox glycyglycyl-L-proline (linker) fusion protein with enterotoxin type A (*Staphylococcus aureus*)-(1-33)-peptidyl-L-seryl[Ser<sup>36</sup>,Ser<sup>37</sup>,Glu<sup>38</sup>,Lys<sup>39</sup>,Ala<sup>41</sup>,Thr<sup>46</sup>,Thr<sup>71</sup>,Ala<sup>72</sup>,Ser<sup>75</sup>,Glu<sup>76</sup>,Glu<sup>78</sup>,Ser<sup>80</sup>,Ser<sup>81</sup>,Thr<sup>214</sup>,Ser<sup>217</sup>,Thr<sup>219</sup>,Ser<sup>220</sup>,Ser<sup>222</sup>,Ser<sup>224</sup>]enterotoxin type E (*Staphylococcus aureus*)-(32-230)-peptide (synthetic superantigen SEA/E-120)
- estafénatox glycyglycyl-L-proline (peptide de liaison) protéine de fusion avec l'entérotoxine type A (*Staphylococcus aureus*)-(1-33)-peptidyl-L-séryl[Ser<sup>36</sup>,Ser<sup>37</sup>,Glu<sup>38</sup>,Lys<sup>39</sup>,Ala<sup>41</sup>,Thr<sup>46</sup>,Thr<sup>71</sup>,Ala<sup>72</sup>,Ser<sup>75</sup>,Glu<sup>76</sup>,Glu<sup>78</sup>,Ser<sup>80</sup>,Ser<sup>81</sup>,Thr<sup>214</sup>,Ser<sup>217</sup>,Thr<sup>219</sup>,Ser<sup>220</sup>,Ser<sup>222</sup>,Ser<sup>224</sup>]entérotoxine type E (*Staphylococcus aureus*)-(32-230)-peptide (superantigène SEA/E-120 synthétique)

estafenatox glicilglicil-L-prolina (péptido de enlace) proteína de fusión con la enterotoxina tipo A (*Staphylococcus aureus*)-(1-33)-peptidil-L-seril[Ser<sup>36</sup>,Ser<sup>37</sup>,Glu<sup>38</sup>,Lys<sup>39</sup>,Ala<sup>41</sup>,Thr<sup>46</sup>,Thr<sup>71</sup>,Ala<sup>72</sup>,Ser<sup>75</sup>,Glu<sup>76</sup>,Glu<sup>78</sup>,Ser<sup>80</sup>,Ser<sup>81</sup>,Thr<sup>214</sup>,Ser<sup>217</sup>,Thr<sup>219</sup>,Ser<sup>220</sup>,Ser<sup>222</sup>,Ser<sup>224</sup>]enterotoxina tipo E (*Staphylococcus aureus*)-(32-230)-péptido (superantígeno SEA/E-120 sintético)



GGPSEKSEEI	NEKDLRKKSE	LQGTALGNLK	QIYYNSKAI	TSSEKSADQF	50
LTNTLLFKGF	FTGHPWYNDL	LVDLGSTAAT	SEYEGSSVDL	YGAYGYQCA	100
GGTPNKTACM	YGGVTLHDNN	RLTEEKVPI	NLWIDGKQTT	VPIDKVKTSK	150
KEVTVQELDL	QARHYLHGKF	GLYNSDSFGG	KVQRGLIVFH	SSEGSTVSYD	200
LFDAQGQYPD	TLLRIYRDNT	TISSTSLSIS	LYLYTT		236

Disulfide bridge location / Position du pont disulfure / Posición del puente disulfuro

99-109

### mafenatoxum

(anatumomabum mafenatoxum (86)(48))

mafenatox [227-L-alanine]enterotoxin A (*Staphylococcus aureus*) (C-terminal fusion protein component)  
 mafénatox [227-L-alanine]entérottoxine A (*Staphylococcus aureus*) (composante C-terminale de protéine de fusion)  
 mafenatox [227-L-alanina]enterotoxina A de *Staphylococcus aureus* (componente C-terminal de proteína de fusión)

### monatoxum

(oportuzumabum monatoxum (100)(62))

monatox 20-mer linker (1-20) -*Pseudomonas aeruginosa* exotoxin A (ETA) fragment [277-633 precursor fragment, containing domain II (281-393) with furin proteolytic cleavage site (298-309), domain Ib I432>V (394-433), domain III (434-633)] (21-377) -hexahistidyl-lysyl-aspartyl-glutamyl-leucyl (378-387)  
 monatox 20-mer linker (1-20) -fragment de l'exotoxine A de *Pseudomonas aeruginosa* (ETA) [fragment 277-633 du précurseur, comprenant le domaine II (281-393) dont le site de clivage protéolytique par la furine (298-309), le domaine Ib I432>V (394-433), le domaine III (434-633)] (21-377) -hexahistidyl-lysyl-aspartyl-glutamyl-leucyl (378-387)  
 monatox 20-mero de enlace (1-20) -fragmento de la exotoxina A de *Pseudomonas aeruginosa* (ETA) [fragmento 277-633 del precursor, que comprende el dominio II (281-393), que incluye la secuencia de ruptura proteolítica por furina (298-309), el dominio Ib I432>V (394-433), el dominio III (434-633)] (21-377) -hexahistidil-lisil-aspartil-glutamil-leucil (378-387)

EFGGAPEFPK	PSTPPGSSGL	EGGSLAALTA	HQACHLPLET	FTRHRQPRGW	50
EQLEQCGYPV	QRLVALYLAA	RLSWNQVDQV	IRNALASPGS	GGDLGEAIRE	100
QPEQARLALT	LAAAESERFV	RQGTGNDEAG	AASADVSLT	CPVAAGECAG	150
PADSGDALLE	RNYPTGAEFL	GDGSDVSFST	RGTQNWTVR	LLQHRQLEE	200
RGYVFGYHG	TFLEAAQSIV	FGGVRARSQD	LDAIWRGFYI	AGDPALAYGY	250
AQDQEPDARG	RIRNGALLRV	YVPRSSLPGF	YRTGLTLAAP	EAAGEVERLI	300
GHPLPLRLDA	ITGPEEEGGR	LETTILGWPLA	ERTVVIPSAI	PTDPRNVGGD	350
LDPSSIPDKE	QAISALPDYA	SQPGKPPHHH	HHKDEL		387

**paptoxum**

(taplitumomabum paptoxum (84)(46))

paptox	pokeweed ( <i>Phytolacca americana</i> ) antiviral protein PAP (disulfide with another protein)
paptox	protéine antivirale du <i>Phytolacca americana</i> (PAP) (disulfure avec une autre protéine)
paptox	proteína antiviral de <i>Phytolacca americana</i> (PAP) (disulfuro con otra proteína)

**pasudotoxum**

(moxetumomabum pasudotoxum (102)(64))

pasudotox	6-mer linker (1-6) - <i>Pseudomonas aeruginosa</i> exotoxin A (ETA) PE38 fragment [276-638 precursor fragment with del 390-405, containing domain II S389>N (281-389) with furin proteolytic cleavage site (298-309), domain Ib I432>V (406-433), domain III (434-638)] (7-353)
pasudotox	6-mer linker (1-6) -fragment PE38 de l'exotoxine A de <i>Pseudomonas aeruginosa</i> (ETA) [fragment 276-638 du précurseur avec del 390-405, comprenant le domaine II S389>N (281-389) dont le site de clivage protéolytique par la furine (298-309), le domaine Ib I432>V (406-433), le domaine III (434-638)] (7-353)
pasudotox	6-mero de enlace (1-6)-fragmento PE38 de la exotoxina A de <i>Pseudomonas aeruginosa</i> (ETA) [fragmento 276-638 del precursor con del 390-405, que comprende el dominio II S389>N (281-389), que incluye la secuencia de ruptura proteolítica por furina (298-309), el dominio Ib I432>V (406-433), el dominio III (434-638)] (7-353)

AKASGGPEGG	SLAALTAHQ	CHLPLETFTR	HRQPRGWEQL	EQCGYPVQRL	50
VALYLAARLS	WNQVDQVIRN	ALASPGSGGD	LGEAIREQPE	QARLALTLAA	100
AESERFVRQG	TGNDEAGAA	GPADSGDALL	ERNYPTGAEF	LGDDGVSFS	150
TRGTQNWTV	RLLQHRQLE	ERGVFVGYH	GTFLAAQSI	VFGGVRARSQ	200
DLDAIWRGFY	IAGDPALAYG	YAQDQEPDAR	GRIRNGALLR	VYVPRSSLPG	250
FYRTSLTLAA	PEAAGEVERL	IGHPLPLRLD	AITGPEEEGG	RLETILGWPL	300
AERTVVIPSA	IPTDPRNVGG	DLDPSSIPDK	EQAISALPDY	ASQPGKPPRE	350
DLK					

**sudotoxum**

(alvirceptum sudotoxum (69)(34))

sudotox	[248-L-histidine-249-L-methionine-250-L-alanine-251-L-glutamic acid]-(248-613)-exotoxin A ( <i>Pseudomonas aeruginosa</i> reduced)
sudotox	[248-L-histidine-249-L-méthionine-250-L-alanine-251-acide L-glutamique]-(248-613)-exotoxine A ( <i>Pseudomonas aeruginosa</i> réduite)
sudotox	[248-L-histidina-249-L-metionina-250-L-alanina-251-ácido L-glutámico]-(248-613)-exotoxina A ( <i>Pseudomonas aeruginosa</i> reducida)

**tafenatoxum**

(nacolomabum tafenatoxum (80)(41))

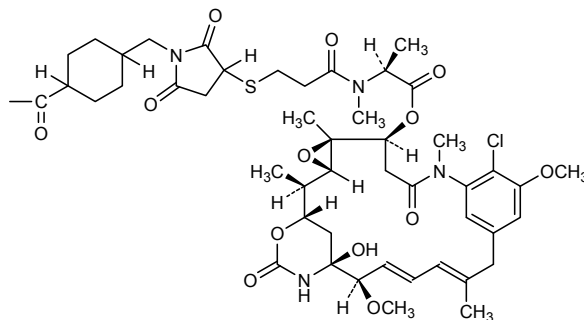
tafenatox	enterotoxin A ( <i>Staphylococcus aureus</i> )
tafénoatox	entérottoxine A ( <i>Staphylococcus aureus</i> )
tafenatox	enterotoxina A ( <i>Staphylococcus aureus</i> )

## 4.2. Designations for selected active moieties\*

**emtansinum**

(trastuzumabum emtansinum (103)(65))

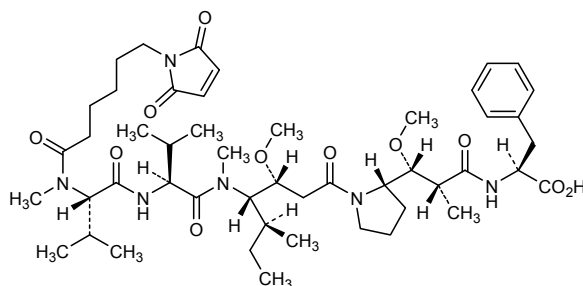
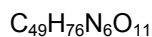
- emtansine 4-({3-[(3-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-chloro-21-hydroxy-12,20-dimethoxy-2,5,9,16-tetramethyl-8,23-dioxo-4,24-dioxo-9,22-diazatetracyclo[19.3.1.1<sup>10,14</sup>.0<sup>3,5</sup>]hexacosa-10,12,14(26),16,18-pentaen-6-yl]oxy)-1-oxopropan-2-yl](methyl)amino)-3-oxopropyl]sulfanyl]-2,5-dioxopyrrolidin-1-yl]methyl)cyclohexanecarbonyl
- emtansine 4-({3-[(3-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-chloro-1-hydroxy-12,20-diméthoxy-2,5,9,16-tétraméthyl-8,23-dioxo-4,24-dioxo-9,22-diazatétracyclo[19.3.1.1<sup>10,14</sup>.0<sup>3,5</sup>]hexacosa-10,12,14(26),16,18-pentaén-6-yl]oxy)-1-oxopropan-2-yl](méthyl)amino)-3-oxopropyl]sulfanyl]-2,5-dioxopyrrolidin-1-yl]méthyl)cyclohexanecarboneyle
- emtansina 4-({3-[(3-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-cloro-21-hidroxi-2,5,9,16-tetrametil-12,20-dimetoxi-8,23-dioxo-4,24-dioxo-9,22-diazatetraciclo[19.3.1.1<sup>10,14</sup>.0<sup>3,5</sup>]hexacosa-10,12,14(26),16,18-pentaen-6-il]oxi)-1-oxopropan-2-il](metil)amino)-3-oxopropil]sulfanil]-2,5-dioxopirrolidin-1-il]metil)ciclohexancarbonilo

C<sub>47</sub>H<sub>62</sub>ClN<sub>4</sub>O<sub>13</sub>S**mafodotinum**

(denintuzumabum mafodotinum (111)(73))

(vorsetuzumabum mafodotinum (107)(69))

- mafodotin *N*-{(2*R*,3*R*)-3-[(2*S*)-1-[(3*R*,4*S*,5*S*)-4-({*N*-[6-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)hexanoyl]-*N*-methyl-*L*-valyl-*L*-valyl)methylamino)-3-methoxy-5-methylheptanoyl]pyrrolidin-2-yl]-3-methoxy-2-methylpropanoyl]-*L*-phenylalanine
- mafodotine *N*-{(2*R*,3*R*)-3-[(2*S*)-1-[(3*R*,4*S*,5*S*)-4-({*N*-[6-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)hexanoyl]-*N*-méthyl-*L*-valyl-*L*-valyl)méthylamino)-3-méthoxy-5-méthylheptanoyl]pyrrolidin-2-yl]-3-méthoxy-2-méthylpropanoyl]-*L*-phénylalanine
- mafodotina *N*-{(2*R*,3*R*)-3-[(2*S*)-1-[(3*R*,4*S*,5*S*)-4-({*N*-[6-(2,5-dioxo-2,5-dihydro-1*H*-pirrol-1-il]hexanoil]-*N*-metil-*L*-valil-*L*-valil]metilamino)-3-metoxi-5-metilheptanoil]pirrolidin-2-il]-3-metoxi-2-metilpropanoil]-*L*-fenilalanina

**mertansinum**

(cantuzumabum mertansinum (105)(66))

(lorvotuzumabum mertansinum (103)(65))

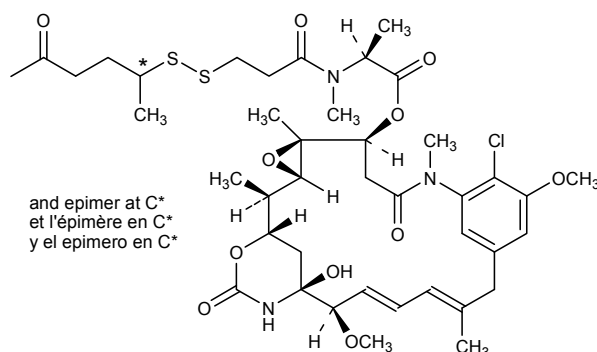
mertansine  $\{(4RS)\text{-}4\text{-}[(3\text{-}[(2S)\text{-}1\text{-}[(1S,2R,3S,5S,6S,16E,18E,20R,21S)\text{-}11\text{-chloro-21-hydroxy-12,20-dimethoxy-2,5,9,16-tetramethyl-8,23-dioxo-4,24-dioxa-9,22-diazatetracyclo[19.3.1.1^{10,14}.0^{3,5}]hexacos-10,12,14(26),16,18-pentaen-6-yl]oxy\text{-}1\text{-oxopropan-2-yl}](methyl)amino\text{-}3\text{-oxopropyl}disulfanyl]pentanoyl\}$

mertansine  $\{(4RS)\text{-}4\text{-}[(3\text{-}[(2S)\text{-}1\text{-}[(1S,2R,3S,5S,6S,16E,18E,20R,21S)\text{-}11\text{-chloro-21-hydroxy-12,20-diméthoxy-2,5,9,16-téttraméthyl-8,23-dioxo-4,24-dioxa-9,22-diazatétracyclo[19.3.1.1^{10,14}.0^{3,5}]hexacos-10,12,14(26),16,18-pentaén-6-yl]oxy\text{-}1\text{-oxopropan-2-yl}](méthyl)amino\text{-}3\text{-oxopropyl}disulfanyl]pentanoyle\}$

mertansina  $\{(4RS)\text{-}4\text{-}[(3\text{-}[(2S)\text{-}1\text{-}[(1S,2R,3S,5S,6S,16E,18E,20R,21S)\text{-}11\text{-cloro-21-hidroxi-2,5,9,16-tetrametil-12,20-dimetoxi-4,24-dioxa-8,23-dioxo-9,22-diazatetraciclo[19.3.1.1^{10,14}.0^{3,5}]hexacos-10,12,14(26),16,18-pentaen-6-il]oxi\text{-}1\text{-oxopropan-2-il}](metil)amino\text{-}3\text{-oxopropil}disulfanil]pentanoilo\}$

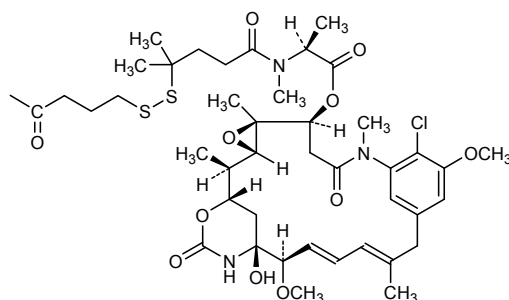


USAN



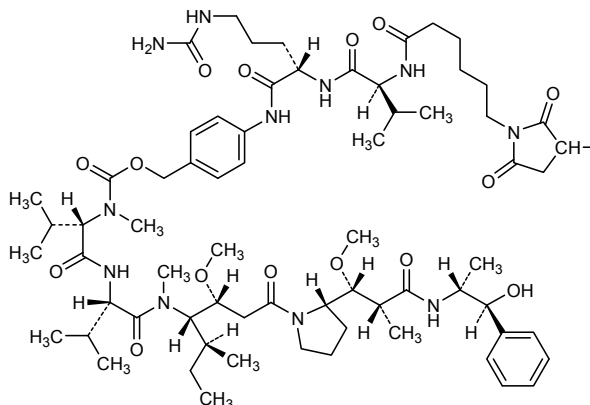
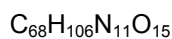
**ravtansinum**

	(anetumabum ravtansinum (109)(71))	(coltuximabum ravtansinum (109)(71))
	(cantuzumabum ravtansinum (105)(67))	(indatuximabum ravtansinum (105)(67))
ravtansine	4-[(5-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-chloro-21-hydroxy-12,20-dimethoxy-2,5,9,16-tetramethyl-8,23-dioxo-4,24-dioxo-9,22-diazatetracyclo[19.3.1.1 <sup>10,14</sup> .0 <sup>3,5</sup> ]hexacos-10,12,14(26),16,18-pentaen-6-yl]oxy}-1-oxopropan-2-yl](methyl)amino}-2-methyl-5-oxopentan-2-yl]disulfanyl]butanoyl	
ravtansine	4-[(5-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-chloro-21-hydroxy-12,20-diméthoxy-2,5,9,16-tétraméthyl-8,23-dioxo-4,24-dioxo-9,22-diazatétracyclo[19.3.1.1 <sup>10,14</sup> .0 <sup>3,5</sup> ]hexacos-10,12,14(26),16,18-pentaèn-6-yl]oxy}-1-oxopropan-2-yl](méthyl)amino}-2-méthyl-5-oxopentan-2-yl]disulfanyl]butanoyle	
ravtansina	4-[(5-[[[(2S)-1-[[[(1S,2R,3S,5S,6S,16E,18E,20R,21S)-11-cloro-21-hidroxi-2,5,9,16-tetrametil-12,20-dimetoxi-8,23-dioxo-4,24-dioxo-9,22-diazatetraciclo[19.3.1.1 <sup>10,14</sup> .0 <sup>3,5</sup> ]hexacos-10,12,14(26),16,18-pentaen-6-il]oxi}-1-oxopropan-2-il](metil)amino}-2-metil-5-oxopentan-2-il]disulfanil]butanoilo	

**vedotinum**

	(brentuximabum vedotinum (103)(65))	(polatuzumabum vedotinum (110)(71))
	(enfortumabum vedotinum (109)(71))	(sofituzumabum vedotinum (110)(72))
	(indusatumabum vedotinum (112)(74))	(vandortuzumabum vedotinum (112)(74))
	(lifastuzumabum vedotinum (110)(72))	
	(pinatumabum vedotinum (108)(70))	
vedotin	(3 <i>RS</i> )-1-(6-[[[(2S)-1-[[[(2S)-5-(carbamoylamino)-1-{4-[[[(2S)-1-[[[(2S)-1-[[[(3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> )-1-[(2S)-2-[(1 <i>R</i> ,2 <i>R</i> )-3-[[[(1 <i>S</i> ,2 <i>R</i> )-1-hydroxy-1-phenylpropan-2-yl]amino}-1-methoxy-2-methyl-3-oxopropyl]pyrrolidin-1-yl]-3-methoxy-5-methyl-1-oxoheptan-4-yl](methyl)amino}-3-methyl-1-oxobutan-2-yl]amino}-3-methyl-1-oxobutan-2-yl]methylcarbamoyl]oxy)methyl]anilino}-1-oxopentan-2-yl]amino}-3-methyl-1-oxobutan-3-yl]amino]-6-oxohexyl)-2,5-dioxopyrrolidin-3-yl	

védotine	(3 <i>RS</i> )-1-(6-[[ <i>(2S)</i> -1-[[ <i>(2S)</i> -5-(carbamoylamino)-1-{4-[[ <i>(2S)</i> -1-[[ <i>(2S)</i> -1-[[ <i>(3R,4S,5S)</i> -1-[[ <i>(2S)</i> -2-[[ <i>(1R,2R)</i> -3-[[ <i>(1S,2R)</i> -1-hydroxy-1-phénylpropan-2-yl]amino]-1-méthoxy-2-méthyl-3-oxopropyl]pyrrolidin-1-yl]-3-méthoxy-5-méthyl-1-oxoheptan-4-yl](méthyl)amino)-3-méthyl-1-oxobutan-2-yl]amino)-3-méthyl-1-oxobutan-2-yl]méthylcarbamoyl]oxy)méthyl]anilino)-1-oxopentan-2-yl]amino)-3-méthyl-1-oxobutan-3-yl]amino)-6-oxohexyl)-2,5-dioxopyrrolidin-3-yle
vedotina	(3 <i>RS</i> )-1-(6-[[ <i>(2S)</i> -1-[[ <i>(2S)</i> -5-(carbamoilamino)-1-{4-[[ <i>(2S)</i> -1-[[ <i>(2S)</i> -1-[[ <i>(3R,4S,5S)</i> -1-[[ <i>(2S)</i> -2-[[ <i>(1R,2R)</i> -3-[[ <i>(1S,2R)</i> -1-fenil-1-hidroxiopropan-2-il]amino)-1-metoxi-2-metil-3-oxopropil]pirrolidin-1-il]-3-metoxi-5-metil-1-oxoheptan-4-il](metil)amino)-3-metil-1-oxobutan-2-il]amino)-3-metil-1-oxobutan-2-il]metilcarbamoil]oxi)metil]anilino)-1-oxopentan-2-il]amino)-3-metil-1-oxobutan-3-il]amino)-6-oxohexil)-2,5-dioxopirrolidin-3-ilo



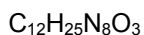
\* Kindly note that this list is not exhaustive.

### 4.3. Insulin qualifiers

#### arginum

(insulinum arginum (58)(28))

argine	B30-yl-L-arginyl-L-arginine
argine	B30-yl-L-arginyl-L-arginine
argina	B30-il-L-arginil-L-arginina



USAN

#### aspartum

(insulinum aspartum (76)(38))

aspart	[B28-L-aspartic acid]
asparte	[B28-L-acide aspartique]
asparta	[B28-L-ácido aspártico]

JAN  
USAN

#### dalanatum

(insulinum dalanatum (104)(65))

dalanated	des-B30-alanine
dalanatée	dés-B30-alanine
dalanatada	des-B30-alanina

#### degludecum

(insulinum degludecum (101)(63))

degludec	$N^{6, B29}$ -[N-(15-carboxypentadecanoyl)-L- $\gamma$ -glutamyl]-des-30B-L-threonine
dégludec	$N^{6, B29}$ -[N-(15-carboxypentadécanoyl)-L- $\gamma$ -glutamyl]-dès-30B-L-thréonine
degludec	$N^{6, B29}$ -[N-(15-carboxipentadecanoil)-L- $\gamma$ -glutamil]-des-30B-L-treonina

JAN

#### defalanum

(insulinum defalanum (37)(!))

defalan	des-B1-phenylalanine
défalan	dés-B1-phénylalanine
defalán	des-B1-fenilalanina



**detemirum**

(insulinum detemirum (80)(42))

detemir	$N^{6,B29}$ -tetradecanoyl-des-B30-L-threonine
détémir	$N^{6,B29}$ -tétradécanoyl-dés-B30-L-thréonine
detemir	$N^{6,B29}$ -tetradecanoil-des-B30-L-treonina

BAN  
JAN  
USAN

**glarginum**

(insulinum glarginum (76)(38))

glargine	[A21-glycine], B30-yl-L-arginyl-L-arginine
glargine	[A21-glycine], B30-yl-L-arginyl-L-arginine
glargina	[A21-glicina], B30-il-L-arginil-L-arginina

BAN  
JAN  
USAN

**glulisinum**

(insulinum glulisinum (84)(46))

glulisine	[B3-lysine, B29-glutamic acid]
glulisine	[B3-lysine, B29-acide glutamique]
glulisina	[B3-lisina, B29-ácido glutámico]

JAN  
USAN

**lisprum**

(insulinum lisprum (72)(35))

lispro	[B28-L-lysine, B29-L-proline]
lispro	[B28-L-lysine, B29-L-proline]
lispro	[B28-L-lisina, B29-L-prolina]

BAN  
JAN  
USAN

**tregopilum**

(insulinum tregopilum (103)(65))

tregopil	$N^{6,B29}$ -(4,7,10,13-tetraoxatetradecanoyl)
tégopil	$N^{6,B29}$ -(4,7,10,13-tétraoxatétradécanoyl)
tregopil	$N^{6,B29}$ -(4,7,10,13-tetraoxatetradecanoil)



**ANNEX 5:****Names for substances with polyethylene glycol (PEG) polymeric chains****Names with *peg-* prefix**

**firtecanum peglumerum** (108)(70)  
firtecan peglumer  
firtécan péglumère  
firtecán peglúmero

**pegbovigrastrimum** (109)(71)  
pegbovigrastrim  
pegbovigrastrim  
pegbovigrastrim

**insulinum peglisprum** (107)(69)  
insulin peglispro  
insuline péglispro  
insulina peglispro

**pegcrisantaspasum** (111)(73)  
pegcrisantaspase  
pegcrisantaspase  
pegcrisantaspasa

**pegacaristimum** (80)(42)  
pegacaristim  
pégacaristim  
pegacaristim

**pegdinetanibum** (103)(65)  
pegdinetanib  
pegdinétanib  
pegdinetanib

**pegademasaum** (63)(31)  
pegademase  
pégadémase  
pegademasa

**pegfilgrastimum** (86)(47)  
pegfilgrastim  
pegfilgrastim  
pegfilgrastim

**pegadricasum** (105)(67)  
pegadricase  
pégadricase  
pegadricasa

**peginesatidum** (108)(69)  
peginesatide  
péginésatide  
peginesatida

**pegaldesleukinum** (74)(36)  
pegaldesleukin  
pégaldesleukine  
pegaldesleukina

**peginterferonum alfa-2a** (84)(46)  
peginterferon alfa-2a  
péginterféron alfa-2a  
peginterferón alfa-2a

**pegamotecanum** (91)(53)  
pegamotecan  
pégamotécan  
pegamotecán

**peginterferonum alfa-2b** (84)(46)  
peginterferon alfa-2b  
péginterféron alfa-2b  
peginterferón alfa-2b

**pegaptanibum** (88)(49)  
pegaptanib  
pégaptanib  
pegaptanib

**peginterferonum beta-1a** (108)(70)  
peginterferon beta-1a  
péginterféron bêta-1a  
peginterferón beta-1a

**pegargiminasum** (111)(73)  
pegargiminase  
pégargiminase  
pegargiminas

**peginterferonum lambda-1a** (105)(67)  
peginterferon lambda-1a  
péginterféron lambda-1a  
peginterferón lambda-1a

**pegaspargasum** (64)(31)  
pegaspargase  
pégaspargase  
pegaspargasa

**pegloticasum** (98)(60)  
pegloticase  
pégloticase  
pegloticasa

**pegmusirudinum** (77)(39)

pegmusirudin  
pegmusirudine  
pegmusirudina

**pegnartograstimum** (80)(42)

pegnartograstim  
pégnartograstim  
pegnartograstim

**pegnivacoginum** (106)(67)

pegnivacogin  
pégnivacogin  
pegnivacogina

**pegorgoteinum** (72)(35)

pegorgotein  
péorgotéine  
pegorgoteína

**pegoteratum** (31)(14)

pegoterate  
pégotérate  
pegoterato

**pegpleranibum** (112)(74)

pegpleranib  
pegpléranib  
pegpleranib

**pegsunerceptum** (95)(49)

pegsunercept  
pegsunercept  
pegsunercept

**pegteograstimum** (109)(71)

pegteograstim  
pegtéograstim  
pegteograstim

**pegvaliasum** (111)(73)

pegvaliase  
pegvaliase  
pegvaliasa

**pegvisomantum** (82)(44)

pegvisomant  
pegvisomant  
pegvisomant

**Names with *pegol* as second word****abaciparum pegolum** (108)(70)

abicipar pegol  
abicipar pégol  
abicipar pegol

**alacizumabum pegolum** (98)(60)

alacizumab pegol  
alacizumab pégol  
alacizumab pegol

**calaspargasum pegolum** (105)(67)

calaspargase pegol  
calaspargase pégol  
calaspargasa pegol

**certolizumabum pegolum** (97)(59)

certolizumab pegol  
certolizumab pégol  
certolizumab pegol

**damoctocog alfa pegol** (109)(71)

damoctocog alfa pegol  
damoctocog alfa pégol  
damoctocog alfa pegol

**dapirolizumabum pegolum** (110)(72)

dapirolizumab pegol  
dapirolizumab pégol  
dapirolizumab pegol

**egaptivonum pegolum** (111)(72)

egaptivon pegol  
egaptivon pégol  
egaptivón pegol

**emapticapum pegolum** (108)(70)

emapticap pegol  
émapticap pégol  
emapticap pegol

**enlimomabum pegolum** (77)(39)

enlimomab pegol  
enlimomab pégol  
enlimomab pegol

**eptacogum alfa pegolum (activatum)**  
(101)(63)

eptacog alfa pegol (activated)  
eptacog alfa pégol (activé)  
eptacog alfa pegol (activado)

**etirinotecanum pegolum** (107)(69)

etirinotecan pegol  
 étirinotécan pégol  
 etirinotecán pegol

**firtecanum pegolum** (107)(69)

firtecan pegol  
 firtécan pégol  
 firtecán pegol

**lexaptepidum pegolum** (108)(70)

lexaptepid pegol  
 lexaptépid pégol  
 lexaptepid pegol

**lulizumabum pegolum** (111)(73)

lulizumab pegol  
 lulizumab pégol  
 lulizumab pegol

**nonacogum beta pegolum** (103)(65)

nonacog beta pegol  
 nonacog bêta pégol  
 nonacog beta pegol

**olaptosedum pegolum** (109)(70)

olaptosed pegol  
 olaptésed pégol  
 olaptosed pegol

**rurioctocogum alfa pegolum** (111)(73)

rurioctocog alfa pegol  
 rurioctocog alfa pégol  
 rurioctocog alfa pegol

**somatropinum pegolum** (104)(65)

somatropin pegol  
 somatropine pégol  
 somatropina pegol

**turoctocogum alfa pegolum** (108)(70)

turoctocog alfa pegol  
 turoctocog alfa pégol  
 turoctocog alfa pegol

**Names with -peg- as an infix****cepeginterferonum alfa-2b** (105)(67)

cepeginterferon alfa-2b  
 cépeginterféron alfa-2b  
 cepeginterferón alfa-2b

**eflapegrastimum** (112)(73)

eflapegrastim  
 éflapéggrastim  
 eflapegrastim

**efpeglenatidum** (111)(73)

efpeglenatide  
 efpèglénatide  
 efpeglenatida

**empegfilgrastimum** (107)(69)

empegfilgrastim  
 empegfilgrastim  
 empegfilgrastim

**lipegfilgrastimum** (107)(68)

lipegfilgrastim  
 lipegfilgrastim  
 lipegfilgrastim

**ropeginterferonum alfa-2b** (109)(71)

ropeginterferon alfa-2b  
 ropéginterféron alfa-2b  
 ropeginterferon alfa-2b

## Explanatory note:

INNs for substances which contain, as part of their structure, polyethylene glycol (PEG) polymeric chains are given either a *peg-* prefix or, when a two-word construction is used, include *pegol* as the second word. Both approaches are equivalent, the choice in the selection process depending on linguistic considerations. As there is a considerable variation in ways in which the PEG moiety is linked to the other part of the structure, and as there are considerable differences in the average molecular mass of the PEG moiety, structures of individual substances have not been reproduced in the document, but can be consulted in relevant INN lists which are accessible on-line at <http://www.who.int/medicines/publications/druginformation/inlists/en/index.html>. Furthermore, it should be noted that INN *macrogol* has been selected for polyethylene glycol as an individual polymeric substance. Each such macrogol name is followed by a number corresponding approximately to the average molecular mass of the product.





## **WHY INNs?**

Since the number of drug substances being registered during the last decades is constantly increasing, there is a strong need to ensure the identification of each pharmaceutical compound by a unique, universally available and accepted name. The existence of an international nomenclature system for pharmaceutical products is crucial for the clear identification, safe prescription and dispensing of medicines to patients, and for communication and exchange of information among health professionals and scientists worldwide.

An **International Nonproprietary Name (INN)** identifies a pharmaceutical substance by a **unique name that is globally recognized and is public property**. A nonproprietary name is also known as a generic name. Generic names are intended to be used in pharmacopoeias, labeling, advertising, drug regulation and scientific literature.