

International Nonproprietary Names for Pharmaceutical Substances

In accordance with paragraph 7 of the Procedure for the Selection of Recommended International Nonproprietary Names for Pharmaceutical Substances,¹ notice is hereby given that the following are selected as recommended international nonproprietary names.

The inclusion of a name in the lists of recommended international nonproprietary names does not imply any recommendation for the use of the substance in medicine or pharmacy.

Recommended International Nonproprietary Names (Rec. INN): List 27²

*Recommended International
Nonproprietary Name (Latin, English)*

Chemical Name or Description and Molecular Formulae

acidum piridronicum piridronic acid	[2-(2-pyridyl)ethylidene]diphosphonic acid $C_7H_{11}NO_6P_2$
acitretinum acitretin	(<i>all-E</i>)-9-(4-methoxy-2,3,6-trimethylphenyl)-3,7-dimethyl-2,4,6,8-nonatetraenoic acid $C_{27}H_{28}O_9$
adibendanum adibendan	5,7-dihydro-7,7-dimethyl-2-(4-pyridyl)pyrrolo[2,3- <i>f</i>]benzimidazol-6(3 <i>H</i>)-one $C_{16}H_{14}N_4O$
albendazolum oxidum albendazole oxide	methyl 5-(propylsulfinyl)-2-benzimidazolecarbamate $C_{12}H_{15}N_3O_3S$
aloxistatinum aloxistatin	ethyl (+)-(2 <i>S</i> ,3 <i>S</i>)-2,3-epoxy- <i>N</i> -[(<i>S</i>)-1-(isopentylcarbamoyl)-3-methylbutyl]succinamate $C_{17}H_{30}N_2O_5$
amproxicamum amproxicam	(±)-4-(1-hydroxyethoxy)-2-methyl- <i>N</i> -2-pyridyl-2 <i>H</i> -1,2-benzothiazine-3-carboxamide ethyl carbonate (ester), 1,1-dioxide $C_{20}H_{21}N_3O_7S$

¹ Off. Rec. Wild Hlth Org., 1955, 60, 3 (Resolution EB15 R7), 1969, 1973, 10 (Resolution EB43.R9).

² Other lists of recommended international nonproprietary names can be found in *Cumulative List No. 6, 1982*.

anaritidum anaritide	L-arginyl-L-seryl-L-seryl-L-cysteinyl-L-phenylalanylglycylglycyl-L-arginyl-L-methionyl-L-aspartyl-L-arginyl-L-isoleucylglycyl-L-alanyl-L-glutamyl-L-serylglycyl-L-leucylglycyl-L-cysteinyl-L-asparaginyll-L-seryl-L-phenylalanyl-L-arginyl-L-tyrosine cyclic (4→20)-disulfide $C_{112}H_{175}N_{39}O_{35}S_3$
arbekacinum arbekacin	O-3-amino-3-deoxy- α -D-glucopyranosyl-(1→4)-O-[2,6-diamino-2,3,4,6-tetra-deoxy- α -D-erythro-hexopyranosyl-(1→6)]-N'-[(2S)-4-amino-2-hydroxybutyryl]-2-deoxy-L-streptamine $C_{22}H_{44}N_8O_{10}$
arnololum arnolol	(±)-3-amino-1-[p-(2-methoxyethyl)phenoxy]-3-methyl-2-butanol $C_{14}H_{23}NO_3$
artemisininum artemisinin	(3R,5aS,6R,8aS,9R,12S,12aR)-octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyranol[4,3-j]-1,2-benzodioxepin-10(3H)-one $C_{15}H_{22}O_5$
azumolenum zumolene	1-[[5-(p-bromophenyl)-2-oxazolyl]methylene]amino]hydantoin $C_{13}H_9BrN_4O_3$
baquiloprimum baquiloprim	5-[(2,4-diamino-5-pyrimidinyl)methyl]-8-(dimethylamino)-7-methylquinoline $C_{17}H_{20}N_6$
bazinaprinum bazinaprine	3-[(2-morpholinoethyl)amino]-6-phenyl-4-pyridazinecarbonitrile $C_{17}H_{19}N_5O$
bemarinonum bemarnone	5,6-dimethoxy-4-methyl-2(1H)-quinazolinone $C_{11}H_{12}N_2O_3$
benexatum benexate	benzyl salicylate, trans-4-(guanidinomethyl)cyclohexanecarboxylate $C_{23}H_{27}N_3O_4$
beperidii iodidum beperidium iodide	cis-1-ethyl-4-hydroxy-1-methylpiperidinium iodide (±)- α -(hexahydro-1H-azepin-1-yl)-1,2-benzisoxazole-3-acetate, mixture with trans-1-ethyl-4-hydroxy-1-methylpiperidinium iodide (±)- α -(hexahydro-1H-azepin-1-yl)-1,2-benzisoxazole-3-acetate (1:1) $C_{23}H_{34}IN_3O_3$
bermoprofenum bermoprofen	(±)-10,11-dihydro- α ,8-dimethyl-11-oxodibenz[b,f]oxepin-2-acetic acid $C_{18}H_{16}O_4$
bifemelanium bifemelane	N-methyl-4-[(α -phenyl-o-tolyl)oxy]butylamine $C_{18}H_{23}NO$
bifeprofenum bifeprofen	(±)-2'-chloro- α -methyl-4-biphenylacetic acid, ester with 1-glycoloyl-4-methylpiperazine $C_{22}H_{25}ClN_2O_3$
bisfentidinum bisfentidine	N-isopropyl-N'-[p-(2-methylimidazol-4-yl)phenyl]formamidine $C_{14}H_{18}N_4$
brefonalolum brefonalol	(±)-6-[2-[(1,1-dimethyl-3-phenylpropyl)amino]-1-hydroxyethyl]-3,4-dihydro-carbostyryl $C_{22}H_{28}N_2O_2$

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budotitanum budotitane	diethoxybis(1-phenyl-1,3-butanedionato)titanium $C_{24}H_{28}O_8Ti$
cefempidonum cefempidone	1-[[[(6 <i>R</i> ,7 <i>R</i>)-7-[2-(2-amino-5-thiazolyl)glyoxylamido]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]pyridinium hydroxide, inner salt, 7 ² -(<i>E</i>)-[<i>O</i> -(2-oxo-3-pyrrolidinyl)oxime] $C_{22}H_{21}N_7O_5S_2$
cefepimum cefepime	1-[[[(6 <i>R</i> ,7 <i>R</i>)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-1-methylpyrrolidinium hydroxide, inner salt, 7 ² -(<i>Z</i>)-(O-methyloxime) $C_{19}H_{24}N_4O_5S_2$
cefmepidii chloridum cefmepidium chloride	4-[[[(6 <i>R</i> ,7 <i>R</i>)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]thio]-1-methylpyridinium chloride 7 ² -(<i>Z</i>)-[<i>O</i> -(1-carboxy-1-methylethyl)oxime] <i>S</i> -oxide $C_{23}H_{25}ClN_6O_4S_3$
cefpodoximum cefpodoxime	(+)-(6 <i>R</i> ,7 <i>R</i>)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-3-(methoxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 7 ² -(<i>Z</i>)-(O-methyloxime) $C_{18}H_{17}N_5O_6S_2$
clazurilum clazuril	(±)-[2-chloro-4-(4,5-dihydro-3,5-dioxo-as-triazin-2(3 <i>H</i>)-yl)phenyl]-(<i>p</i> -chlorophenyl)acetonitrile $C_{17}H_{10}Cl_2N_4O_2$
clopidogrelum clopidogrel	methyl (+)-(S)-α-(<i>o</i> -chlorophenyl)-6,7-dihydrothieno[3,2- <i>c</i>]pyridine-5(4 <i>H</i>)-acetate $C_{16}H_{14}ClNO_2S$
daltrobanum daltroban	[<i>p</i> -(2-(<i>p</i> -chlorobenzenesulfonamido)ethyl)phenyl]acetic acid $C_{16}H_{14}ClNO_4S$
datelliptii chloridum datelliptium chloride	2-[2-(diethylamino)ethyl]-9-hydroxy-5,11-dimethyl-6 <i>H</i> -pyrido[4,3- <i>b</i>]-carbazolium chloride $C_{23}H_{28}ClN_3O$
dembrexinum dembrexine	<i>trans</i> -4-[(3,5-dibromosalicyl)amino]cyclohexanol $C_{13}H_{17}Br_2NO_2$
detirelixum detirelix	<i>N</i> -acetyl-3-(2-naphthyl)- <i>D</i> -alanyl- <i>p</i> -chloro- <i>D</i> -phenylalanyl- <i>D</i> -tryptophyl-L-seryl-L-tyrosyl- <i>N</i> °-(<i>N</i> , <i>N</i> '-diethylamidino)- <i>D</i> -lysyl-L-leucyl-L-arginyl-L-prolyl- <i>D</i> -alaninamide $C_{78}H_{105}ClN_{18}O_{13}$
dexamethasoni acefuras dexamethasone acefurate	9-fluoro-11β,17,21-trihydroxy-16α-methylpregna-1,4-diene-3,20-dione 21-acetate 17-(2-fluorate) $C_{28}H_{33}FO_8$
diclazurilum diclazuril	(±)-(p-chlorophenyl)[2,6-dichloro-4-(4,5-dihydro-3,5-dioxo-as-triazin-2(3 <i>H</i>)-yl)phenyl]acetonitrile $C_{17}H_9Cl_3N_4O_2$
difloxacinum difloxacin	6-fluoro-1-(<i>p</i> -fluorophenyl)-1,4-dihydro-7-(4-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid $C_{21}H_{19}F_2N_5O_3$
disuprazolum disuprazole	2-[[[4-(ethylthio)-3-methyl-2-pyridyl]methyl]sulfinyl]benzimidazole $C_{16}H_{17}N_3OS_2$
ditiocarbium natricum ditiocarb sodium	sodium diethyldithiocarbamate $C_5H_{10}NNaS_2$

dobupridum dobupride	4-amino-2-butoxy-5-chloro- <i>N</i> -[1-(1,3-dioxolan-2-ylmethyl)-4-piperidyl]benzamide $C_{20}H_{30}ClN_3O_4$
donetidinum donetidine	5-[(1,2-dihydro-2-oxo-4-pyridyl)methyl]-2-[[2-[[5-[(dimethylamino)methyl]furfuryl]thio]ethyl]amino]-4(1 <i>H</i>)-pyrimidinone $C_{20}H_{25}N_5O_3S$
dramedilolum dramedilol	acetone (±)-[6-[3-[(3,4-dimethoxyphenethyl)amino]-2-hydroxypropoxy]-3-pyridazinyl]hydrazone $C_{20}H_{28}N_4O_4$
droxidopa droxidopa	(-)- <i>threo</i> -3-(3,4-dihydroxyphenyl)- <i>L</i> -serine $C_9H_{11}NO_5$
dulozafonum dulozafone	2-[bis(2-hydroxyethyl)amino]-4'-chloro-2'-(<i>o</i> -chlorobenzoyl)- <i>N</i> -methylacetanilide $C_{20}H_{22}Cl_2N_2O_4$
biratidum biratide	<i>L</i> -methionyl- <i>L</i> -glutamyl- <i>L</i> -histidyl- <i>L</i> -phenylalanyl- <i>D</i> -lysyl- <i>N</i> -(8-amino-octyl)- <i>L</i> -phenylalaninamide <i>S,S</i> -dioxide $C_{48}H_{73}N_{11}O_{10}S$
ebrotidinum ebrotidine	<i>p</i> -bromo- <i>N</i> -[[[2-[[[2-[(diaminomethylene)amino]-4-thiazolyl]methyl]-thio]ethyl]amino]methylene]benzenesulfonamide $C_{14}H_{17}BrN_6O_2S_3$
ecastololum ecastolol	(±)-4'-[3-[(3,4-dimethoxyphenethyl)amino]-2-hydroxypropoxy]-3'-(5-isoxazolyl)butyranilide $C_{28}H_{33}N_3O_6$
edifololum edifolone	10-(2-aminoethyl)estr-5-ene-3,17-dione, cyclic bis(ethylene acetal) $C_{24}H_{37}NO_4$
eltoprazinum eltoprazine	1-(1,4-benzodioxan-5-yl)piperazine $C_{12}H_{16}N_2O_2$
elziverinum elziverine	6,7-dimethoxy-4-[[4-(<i>o</i> -methoxyphenyl)-1-piperazinyl]methyl]-1-veratrylisoquinoline $C_{32}H_{37}N_3O_5$
enrofloxacinum enrofloxacin	1-cyclopropyl-7-(4-ethyl-1-piperazinyl)-6-fluoro-1,4-dihydro-4-oxo-3-quinoline-carboxylic acid $C_{19}H_{22}FN_3O_3$
eperisonum eperisone	4'-ethyl-2-methyl-3-piperidinopropiophenone $C_{17}H_{25}NO$
epinastinum epinastine	3-amino-9,13b-dihydro-1 <i>H</i> -dibenz[<i>c,f</i>]imidazo[1,5- <i>a</i>]azepine $C_{16}H_{15}N_3$
epsiprantelum epsiprantel	(±)-2-(cyclohexylcarbonyl)-2,3,6,7,8,12b-hexahydropyrazino[2,1- <i>a</i>][2]benzazepin-4(1 <i>H</i>)-one $C_{20}H_{26}N_2O_2$
eptaloprostum eptaloprost	4-[2-[(2 <i>E</i> ,3 <i>aS</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>aS</i>)-hexahydro-5-hydroxy-4-[(3 <i>S</i> ,4 <i>S</i>)-3-hydroxy-4-methyl-1,6-nonadiynyl]-2(1 <i>H</i>)-pentalenyldene]ethoxy]butyric acid $C_{24}H_{34}O_3$

erdosteinum erdosteine	(±)-[[[(tetrahydro-2-oxo-3-thienyl)carbamoyl]methyl]thio]acetic acid $C_8H_{11}NO_4S_2$
erythromycini stinopras erythromycin stinoprate	erythromycin 2'-propionate, compound with <i>N</i> -acetyl-L-cysteine (1:1) $C_{40}H_{71}NO_{14} \cdot C_3H_5NO_3S$ or $C_{45}H_{80}N_2O_{17}S$
esflurbiprofenum esflurbiprofen	(<i>S</i>)-2-fluoro- α -methyl-4-biphenylacetic acid $C_{18}H_{15}FO_2$
etanidazolum etanidazole	<i>N</i> -(2-hydroxyethyl)-2-nitroimidazole-1-acetamide $C_7H_{10}N_4O_4$
etofenproxum etofenprox	α -[(<i>p</i> -ethoxy- β , β -dimethylphenethyl)oxy]- <i>m</i> -phenoxytoluene $C_{25}H_{28}O_3$
exametazimum exametazime	(±)-(3 <i>RS</i> , 3' <i>RS</i>)-3,3'-[(2,2-dimethyltrimethylene)diimino]di-2-butanone dioxime $C_{13}H_{28}N_4O_2$
fazarabinum fazarabine	4-amino-1- β -D-arabinofuranosyl-s-triazin-2(1 <i>H</i>)-one $C_8H_{12}N_4O_3$
fleroxacinum fleroxacin	6,8-difluoro-1-(2-fluoroethyl)-1,4-dihydro-7-(4-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid $C_{17}H_{18}F_3N_3O_3$
flosequinam flosequinan	7-fluoro-1-methyl-3-(methylsulfinyl)-4(1 <i>H</i>)-quinolone $C_{17}H_{16}FNO_2S$
fosinoprilum fosinopril	(4 <i>S</i>)-4-cyclohexyl-1-[[[(<i>RS</i>)-1-hydroxy-2-methylpropoxy](4-phenylbutyl)-phosphinyl]acetyl]-L-proline propionate (ester) $C_{30}H_{48}NO_7P$
fotemustinum fotemustine	(±)-diethyl [1-[3-(2-chloroethyl)-3-nitrosoureido]ethyl]phosphonate $C_9H_{19}ClN_3O_3P$
ganciclovirum ganciclovir	9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]guanine $C_9H_{13}N_5O_4$
foserelinum foserelin	1-(5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl- <i>O</i> - <i>tert</i> -butyl-D-seryl-L-leucyl-L-arginyl-L-prolyl)semicarbazide $C_{59}H_{84}N_{18}O_{14}$
guaisteinum guaisteine	thioacetic acid, <i>S</i> -ester with (±)-3-(mercaptoacetyl)-2-[(<i>o</i> -methoxyphenoxy)methyl]thiazolidine $C_{15}H_{19}NO_4S_2$
ibacitabinum ibacitabine	2'-deoxy-5-iodocytidine $C_9H_{12}IN_3O_4$
ilmofofinum ilmofofine	choline hydroxide, (±)-3-(hexadecylthio)-2-(methoxymethyl)propyl hydrogen phosphate, inner salt $C_{26}H_{56}NO_3PS$

indolidanum indolidan	3,3-dimethyl-5-(1,4,5,6-tetrahydro-6-oxo-3-pyridazinyl)-2-indolinone $C_{14}H_{15}N_3O_2$
iobenguanum (^{131}I) iobenguane (^{131}I)	(<i>m</i> -iodo- ^{131}I -benzyl)guanidine $C_8H_{10}^{131}IN_3$
iprotiazemum iprotiazem	(+)-(R)-2-isopropyl-4-methyl-2-[o-[4-[4-(3,4,5-trimethoxyphenethyl)-1-piperazinyl]butoxy]phenyl]-2 <i>H</i> -1,4-benzothiazin-3(4 <i>H</i>)-one $C_{37}H_{45}N_3O_5S$
itazigrelum itazigrel	4,5-bis(<i>p</i> -methoxyphenyl)-2-(trifluoromethyl)thiazole $C_{18}H_{14}F_3NO_2S$
lacidipinum lacidipine	4-[o-[(<i>E</i>)-2-carboxyvinyl]phenyl]-1,4-dihydro-2,6-dimethyl-3,5-pyridine-dicarboxylic acid, 4- <i>tert</i> -butyl diethyl ester $C_{28}H_{33}NO_6$
levofenfluraminum levofenfluramine	(-)-(R)- <i>N</i> -ethyl- α -methyl- <i>m</i> -(trifluoromethyl)phenethylamine $C_{12}H_{16}F_3N$
levoprotilinum levoprotiline	(-)-(R)- α -[(methylamino)methyl]-9,10-ethanoanthracene-9(10 <i>H</i>)-ethanol $C_{20}H_{23}NO$
limaprostum limaprost	(<i>E</i>)-7-[(1 <i>R</i> ,2 <i>R</i> ,3 <i>R</i>)-3-hydroxy-2-[(<i>E</i>)-(3 <i>S</i> ,5 <i>S</i>)-3-hydroxy-5-methyl-1-nonanyl]-5-oxocyclopentyl]-2-heptenoic acid, compound with α -cyclodextrin $C_{22}H_{36}O_5$
lioldinum lioldine	2,2'-[(3,3'-difluoro-4,4'-biphenylene)dinitrilo]dipyrrolidine $C_{20}H_{20}F_2N_4$
lixazinonum lixazinone	<i>N</i> -cyclohexyl- <i>N</i> -methyl-4-[(1,2,3,5-tetrahydro-2-oxoimidazo[2,1- <i>b</i>]quinazolin-7-yl)oxy]butyramide $C_{21}H_{28}N_4O_3$
lodaxaprinum lodaxaprine	1-[6-(<i>o</i> -chlorophenyl)-3-pyridazinyl]-4-piperidinol $C_{15}H_{16}ClN_3O$
loperamidum oxidum loperamide oxide	<i>trans</i> -4-(<i>p</i> -chlorophenyl)-4-hydroxy- <i>N,N</i> -dimethyl- α,α -diphenyl-1-piperidinebutyramide 1-oxide $C_{29}H_{33}ClN_2O_3$
lorcinadolum rcinadol	(<i>E</i>)-3-chloro-6-(4-cinnamyl-1-piperazinyl)pyridazine $C_{17}H_{19}ClN_4$
lorglumidum lorglumide	(\pm)-4-(3,4-dichlorobenzamido)- <i>N,N</i> -dipentylglutaramic acid $C_{22}H_{32}Cl_2N_2O_4$
lovastatinum lovastatin	(<i>S</i>)-2-methylbutyric acid, 8-ester with (4 <i>R</i> ,6 <i>R</i>)-6-[2-[(1 <i>S</i> ,2 <i>S</i> ,6 <i>R</i> ,8 <i>S</i> ,8 <i>aR</i>)-1,2,6,7,8,8 <i>a</i> -hexahydro-8-hydroxy-2,6-dimethyl-1-naphthyl]ethyl]tetrahydro-4-hydroxy-2 <i>H</i> -pyran-2-one $C_{24}H_{36}O_5$
loxiglumidum loxiglumide	(\pm)-4-(3,4-dichlorobenzamido)- <i>N</i> -(3-methoxypropyl)- <i>N</i> -pentylglutaramic acid $C_{21}H_{30}Cl_2N_2O_5$
mafoprazinum mafoprazine	4'-[3-[4-(<i>o</i> -fluorophenyl)-1-piperazinyl]propoxy]- <i>m</i> -acetanisidide $C_{22}H_{28}FN_3O_3$

methylprednisoloni suleptanas methylprednisolone suleptanate	7-[methyl(2-sulfoethyl)carbamoyl]heptanoic acid, C-21-ester with 11 β ,17,21-trihydroxy-6 α -methylpregna-1,4-diene-3,20-dione, monosodium salt C ₃₃ H ₄₈ NNaO ₁₀ S
metrenperonum metrenperone	3-[2-[4-(<i>p</i> -fluorobenzoyl)piperidino]ethyl]-2,7-dimethyl-4 <i>H</i> -pyrido[1,2- <i>a</i>]-pyrimidin-4-one C ₂₄ H ₂₄ FN ₃ O ₂
mezacopridum mezacopride	(\pm)-5-chloro-4-(methylamino)- <i>N</i> -3-quinuclidinyl- <i>o</i> -anisamide C ₁₈ H ₂₂ ClN ₃ O ₂
midaglizolum midaglizole	(\pm)-2-[α -(2-imidazolin-2-ylmethyl)benzyl]pyridine C ₁₆ H ₁₇ N ₃
modafinilum modafinil	2-[(diphenylmethyl)sulfinyl]acetamide C ₁₅ H ₁₅ NO ₂ S
rolfarnatum rolfarnate	3,7,11-trimethyl-2,6,10-dodecatrienyl 4,8,12-trimethyl-3,7,11-tridecatrienoate C ₃₁ H ₅₀ O ₂
mometasonum mometasone	9,21-dichloro-11 β ,17-dihydroxy-16 α -methylpregna-1,4-diene-3,20-dione C ₂₂ H ₂₈ Cl ₂ O ₄
nanafrocinum nanafrocine	(1 <i>S</i> ,3 <i>R</i>)-3,4,5,10-tetrahydro-9-hydroxy-1-methyl-5,10-dioxo-1 <i>H</i> -naphtho-[2,3- <i>c</i>]pyran-3-acetic acid C ₁₈ H ₁₄ O ₄
nerbacadolum nerbacadol	1-[(5-methyl-4-isoxazolyl)carbonyl]piperidine C ₁₀ H ₁₄ N ₂ O ₂
niguldipinum niguldipine	(\pm)-3-(4,4-diphenylpiperidino)propyl methyl 1,4-dihydro-2,6-dimethyl-4-(<i>m</i> -nitrophenyl)-3,5-pyridinedicarboxylate C ₃₅ H ₃₃ N ₃ O ₆
nilutamidum nilutamide	5,5-dimethyl-3-(<i>a,a,a</i> -trifluoro-4-nitro- <i>m</i> -tolyl)hydantoin C ₁₂ H ₁₀ F ₃ N ₃ O ₄
nonathymulinum nonathymulin	<i>N</i> ² -[<i>N</i> -[<i>N</i> -[<i>N</i> ² -[<i>N</i> -[<i>N</i> -[<i>N</i> -(5-oxo-L-prolyl)-L-alanyl]-L-lysyl]-L-seryl]-L-glutaminy]glycyl]glycyl]-L-seryl]-L-asparagine C ₃₃ H ₅₄ N ₁₂ O ₁₅
nuclomedonum nuclomedone	(\pm)-6-(<i>p</i> -chlorobenzyl)-2,3-dihydro-5 <i>H</i> -thiazolo[3,2- <i>a</i>]pyrimidine-5,7(6 <i>H</i>)-dione C ₁₃ H ₁₁ ClN ₂ O ₂ S
orbutoprilum orbutopril	(2 <i>S</i> ,3 <i>aS</i> ,7 <i>aS</i>)-1-[(<i>S</i>)- <i>N</i> -[(<i>S</i>)-1-carboxypentyl]alaninyl]hexahydro-2-indoline-carboxylic acid, 1-ethyl ester C ₂₀ H ₃₄ N ₂ O ₅
ornoprostilum ornoprostil	methyl (-)-(1 <i>R</i> ,2 <i>R</i> ,3 <i>R</i>)-3-hydroxy-2-[(<i>E</i>)-(3 <i>S</i> ,5 <i>S</i>)-3-hydroxy-5-methyl-1-nonenyl]- ϵ ,5-dioxocyclopentaneheptanoate C ₂₃ H ₃₈ O ₅

oxaliplatinum oxaliplatin	[(1 <i>R</i> ,2 <i>R</i>)-1,2-cyclohexanediamine- <i>N,N'</i>][oxalato(2-)- <i>O,O'</i>]platinum $C_8H_{14}N_2O_4Pt$
pantenicatum pantenate	[<i>R</i> -(<i>R</i> *, <i>R</i> *)]-3-pyridylmethyl hydrogen succinate, tetraester with <i>N,N'</i> -[dithiobis(ethyleneiminocarbonyl)ethylene]bis[2,4-dihydroxy-3,3-dimethylbutyramide] $C_{82}H_{78}N_8O_{20}S_2$
pazelliptinum pazelliptine	10-[[3-(diethylamino)propyl]amino]-6-methyl-5 <i>H</i> -pyrido[3',4':4,5]pyrrolo[2,3- <i>g</i>]isoquinoline $C_{22}H_{27}N_5$
pelanserinum pelanserine	3-[3-(4-phenyl-1-piperazinyl)propyl]-2,4(1 <i>H</i> ,3 <i>H</i>)-quinazolin-2-one $C_{21}H_{24}N_4O_2$
perindoprilatum perindoprilat	(2 <i>S</i> ,3 <i>aS</i> ,7 <i>aS</i>)-1-[(<i>S</i>)- <i>N</i> -[(<i>S</i>)-1-carboxybutyl]alanyl]hexahydro-2-indoline-carboxylic acid $C_{17}H_{26}N_2O_5$
pimnidazolium imnidazole	(±)-α-[(2-nitroimidazol-1-yl)methyl]-1-piperidineethanol $C_{11}H_{16}N_4O_3$
pirtenidinum pirtenidine	1,4-dihydro-1-octyl-4-(octylimino)pyridine $C_{21}H_{34}N_2$
pravastatinum pravastatin	(+)-(β <i>R</i> ,δ <i>R</i> ,1 <i>S</i> ,2 <i>S</i> ,6 <i>S</i> ,8 <i>S</i> ,8 <i>aR</i>)-1,2,6,7,8,8 <i>a</i> -hexahydro-β,δ,6,8-tetrahydroxy-2-methyl-1-naphthaleneheptanoic acid, 8-[(2 <i>S</i>)-2-methylbutyrate] $C_{23}H_{38}O_7$
prinomidum prinomide	α-cyano-1-methyl-β-oxopyrrole-2-propionanilide $C_{15}H_{13}N_3O_2$
quinaprilum quinapril	(<i>S</i>)-2-[(<i>S</i>)- <i>N</i> -[(<i>S</i>)-1-carboxy-3-phenylpropyl]alanyl]-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid, 1-ethyl ester $C_{25}H_{30}N_2O_5$
ramoplaninum ramoplanin	factor A ₂ of the antibiotic complex A/16686 produced by <i>Actinoplanes</i> sp. ATCC 33076 empirical molecular formula $C_{1119}H_{134}ClN_{21}O_{40}$
ranolazinium ranolazine	(±)-4-[2-hydroxy-3-(<i>o</i> -methoxyphenoxy)propyl]-1-piperazineacetate-2',6'-xylylidide $C_{24}H_{33}N_3O_4$
etelliptinum etelliptine	1-[[3-(diethylamino)propyl]amino]-9-methoxy-5,11-dimethyl-6 <i>H</i> -pyrido[4,3- <i>b</i>]-carbazole $C_{23}H_{32}N_4O$
rilmenidinum rilmenidine	2-[(dicyclopropylmethyl)amino]-2-oxazoline $C_{10}H_{16}N_2O$
rilopiroxum rilopirox	6-[[<i>p</i> -(<i>p</i> -chlorophenoxy)phenoxy]methyl]-1-hydroxy-4-methyl-2(1 <i>H</i>)-pyridone $C_{19}H_{18}ClNO_4$
rimoproginum rimoprogin	5-[(3-iodo-2-propynyl)oxy]-2-(methylthio)pyrimidine $C_8H_7IN_2OS$
risperidonum risperidone	3-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)piperidino]ethyl]-6,7,8,9-tetrahydro-2-methyl-4 <i>H</i> -pyrido[1,2- <i>a</i>]pyrimidin-4-one $C_{23}H_{27}FN_4O_2$

ritimetanum ritimetan	(methylidynetritio)triacetic acid $C_7H_{10}O_4S_3$
rocastinum rocastine	(±)-2-[2-(dimethylamino)ethyl]-3,4-dihydro-4-methylpyrido[3,2-f]-1,4-oxazepine-5(2H)-thione $C_{13}H_{19}N_3OS$
ronactololum ronactolol	(±)-4'-[2-hydroxy-3-(isopropylamino)propoxy]-p-anisilide $C_{20}H_{26}N_2O_4$
rufloxacinum rufloxacin	9-fluoro-2,3-dihydro-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzothiazine-6-carboxylic acid $C_{17}H_{19}FN_3O_3S$
sabeluzolum sabeluzole	(±)-4-(2-benzothiazolylmethylamino)-α-[(p-fluorophenoxy)methyl]-1-piperidineethanol $C_{22}H_{26}FN_3O_2S$
saterinonum saterinone	(±)-1,2-dihydro-5-[p-[2-hydroxy-3-[4-(o-methoxyphenyl)-1-piperazinyl]-propoxy]phenyl]-6-methyl-2-oxonicotinonitrile $C_{27}H_{30}N_4O_4$
savoxepinum savoxepin	3-(cyclopentylmethyl)-2,3,4,5-tetrahydro-1H-dibenz[2,3:6,7]oxepino[4,5-d]-azepine-7-carbonitrile $C_{25}H_{28}N_2O$
sedecamycinum sedecamycin	(-)-N-[(1S,2R,3E,5E,7S,9E,11E,13S,15R,19R)-7,13-dihydroxy-1,4,10,19-tetramethyl-17,18-dioxo-16-oxabicyclo[13.2.2]nonadeca-3,5,9,11-tetraen-2-yl]pyruvamide 13-acetate $C_{27}H_{35}NO_8$
seganserinum seganserin	3-[2-[4-[bis(p-fluorophenyl)methylene]piperidino]ethyl]-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one $C_{28}H_{27}F_2N_3O$
seglitidum seglitide	cyclo(N-methyl-L-alanyl-L-tyrosyl-D-tryptophyl-L-lysyl-L-valyl-L-phenyl-alanyl) $C_{44}H_{58}N_8O_7$
sequifenadinum sequifenadine	α,α-di-o-tolyl-3-quinuclidinemethanol $C_{22}H_{27}NO$
sermorelinum sermorelin	growth hormone-releasing factor (human)-(1-29)-peptide amide $C_{145}H_{246}N_{44}O_{42}S$
sertaconazolum sertaconazole	(±)-1-[2,4-dichloro-β-[(7-chlorobenzo[b]thien-3-yl)methoxy]phenethyl]-imidazole $C_{20}H_{13}Cl_3N_2OS$
setiptilinum setiptiline	2,3,4,9-tetrahydro-2-methyl-1H-dibenzo[3,4:6,7]cyclohepta[1,2-c]pyridine $C_{18}H_{18}N$
sevitropii mesilas sevitropium mesilate	(±)-3α-[(6,11-dihydrodibenzo[b,e]thiepin-11-yl)oxy]-6β,7β-epoxy-8-methyl-1αH,5αH-tropanium methanesulfonate $C_{24}H_{29}NO_3S_2$
siagosidum siagoside	N-[(1P-N-acetylneuraminosylgangliosyl)ceramide, intramolecular ester $C_{73}H_{129}N_3O_{30}$

sibutraminum sibutramine	(±)-1-(<i>p</i> -chlorophenyl)- <i>a</i> -isobutyl- <i>N,N</i> -dimethylcyclobutanemethylamine C ₁₇ H ₂₆ ClN
sizofiranum sizofiran	Schizophyllan or Poly[3→(O-β-D-glucopyranosyl-(1→3))-O-[β-D-glucopyranosyl-(1→6)]-O-β-D-glucopyranosyl-(1→3)-O-β-D-glucopyranosyl]→1] (C ₂₄ H ₄₀ O ₂₀) _n
somatorelinum somatorelin	growth hormone-releasing factor (human) C ₂₁₅ H ₃₅₈ N ₇₂ O ₉₈ S
somatropinum somatropin	growth hormone (human) or somatotropin (human) C ₉₉₀ H ₁₅₂₈ N ₂₆₂ O ₃₀₀ S ₇
spiraprilum spirapril	(8 <i>S</i>)-7-[(<i>S</i>)- <i>N</i> -[(<i>S</i>)-1-carboxy-3-phenylpropyl]alanyl]-1,4-dithia-7-azaspiro[4,4]nonane-8-carboxylic acid, 1-ethyl ester C ₂₂ H ₃₀ N ₂ O ₅ S ₂
talipexolum talipexole	6-allyl-2-amino-5,6,7,8-tetrahydro-4 <i>H</i> -thiazolo[4,5- <i>d</i>]azepine C ₁₀ H ₁₃ N ₃ S
tamerdonum tamerdone	7-[2-(4-indol-3-ylpiperidino)ethyl]theophylline C ₂₂ H ₂₆ N ₆ O ₂
temozolomidum temozolomide	3,4-dihydro-3-methyl-4-oxoimidazo[5,1- <i>d</i>]-as-tetrazine-8-carboxamide C ₆ H ₈ N ₆ O ₂
teniloxazinum teniloxazine	(±)-2-[[(<i>a</i> -2-thienyl- <i>o</i> -tolyl)oxy]methyl]morpholine C ₁₆ H ₁₉ NO ₂ S
tetronasinum tetronasin	4-hydroxy-3-[(2 <i>S</i>)-2-[(1 <i>S</i> ,2 <i>S</i> ,6 <i>R</i>)-2-[(1 <i>E</i>)-3-hydroxy-2-[(2 <i>R</i> ,3 <i>R</i> ,6 <i>S</i>)-tetrahydro-3-methyl-6-[(1 <i>E</i> ,3 <i>S</i>)-3-[(2 <i>R</i> ,3 <i>S</i> ,5 <i>R</i>)-tetrahydro-5-[(1 <i>S</i>)-1-methoxyethyl]-3-methyl-2-furyl]-1-butenyl]-2 <i>H</i> -pyran-2-yl]propenyl]-6-methylcyclohexyl]-propionyl]-2(5 <i>H</i>)-furanone C ₃₅ H ₅₄ O ₈
tienoxololum tienoxolol	(±)-ethyl 2-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]-5-(2-thiophenecarboxamido)benzoate C ₂₇ H ₂₈ N ₂ O ₅ S
tifuracum tifurac	7-[<i>p</i> -(methylthio)benzoyl]-5-benzofuranacetic acid C ₁₆ H ₁₄ O ₄ S
tigemonamum tigemonam	[[[(<i>Z</i>)-(2-amino-4-thiazolyl)][(3 <i>S</i>)-1-hydroxy-2,2-dimethyl-4-oxo-3-azetidiny]carbamoyl]methylene]amino]oxy]acetic acid hydrogen sulfate (ester) C ₁₂ H ₁₅ N ₅ O ₉ S ₂
tilisololum tilisolol	(±)-4-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]-2-methylisocarbostyryl C ₁₇ H ₂₄ N ₂ O ₃
tilmicosinum tilmicosin	4 <i>A</i> - <i>O</i> -de(2,6-dideoxy-3- <i>C</i> -methyl- <i>a</i> -L- <i>ribo</i> -hexopyranosyl)-20-deoxo-20-(<i>cis</i> -3,5-dimethylpiperidino)tylalin C ₄₆ H ₈₀ N ₂ O ₁₃
tiospironum tiospirone	<i>N</i> -[4-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]butyl]-1,1-cyclopentanediacet-imide C ₂₄ H ₃₂ N ₄ O ₂ S
tiprotimadum tiprotimod	2-[(3-carboxypropyl)thio]-4-methyl-5-thiazoleacetic acid C ₁₀ H ₁₃ NO ₄ S ₂

*Recommended International
Nonproprietary Name (Latin, English)*

Chemical Name or Description and Molecular Formulae

tomoglumidum tomoglumide	(±)-4-(3,4-dimethylbenzamido)-N,N-dipentylglutaramic acid C ₂₄ H ₃₆ N ₂ O ₄
topiramatum topiramate	2,3:4,5-di-O-isopropylidene-β-D-fructopyranose sulfamate C ₁₂ H ₂₁ NO ₈ S
torbafyllinum torbafylline	7-(ethoxymethyl)-1-(5-hydroxy-5-methylhexyl)-3-methylxanthine C ₁₈ H ₂₈ N ₄ O ₄
trigevololum trigevolol	(±)-5-[2-[[2-hydroxy-3-[p-(2-methoxyethoxy)phenoxy]propyl]amino]ethoxy]- salicylamide C ₂₁ H ₂₈ N ₂ O ₇
triptorelinum triptorelin	5-oxo-L-protyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L- arginyl-L-prolylglycinamide C ₆₄ H ₈₂ N ₁₈ O ₁₃
ubenimexum ubenimex	(-)-N-[(2S,3R)-3-amino-2-hydroxy-4-phenylbutyryl]-L-leucine C ₁₈ H ₂₄ N ₂ O ₄
ulinastatinum ulinastatin	a glycoprotein of molecular weight about 67,000 isolated from human urine, inhibiting mainly proteolytic enzymes
urofolilitropinum urofolilitropin	a preparation of menopausal gonadotrophin extracted from human urine, but possessing negligible luteinising hormone (LH) activity
vadocainum vadocaine	(±)-6'-methoxy-2-methyl-1-piperidinepropiono-2',4'-xylidide C ₁₈ H ₂₈ N ₂ O ₂
vesnarinonum vesnarinone	1-(1,2,3,4-tetrahydro-2-oxo-6-quinolyl)-4-veratroylpiperazine C ₂₂ H ₂₅ N ₃ O ₄
vinorelbinum vinorelbine	3',4'-didehydro-4'-deoxy-8'-norvincal leukoblastine C ₄₅ H ₅₄ N ₄ O ₈
zidovudinum zidovudine	3'-azido-3'-deoxythymidine C ₁₀ H ₁₃ N ₅ O ₄

AMENDMENTS TO PREVIOUS LISTS

WHO Chronicle, Supplement to Vol. 35, N. 5, 1984

International Nonproprietary Names (Rec. INN): List 21

- | | | |
|------|-----------------------------|---|
| p. 4 | defibrotidum
defibrotide | <i>the description should be replaced by:</i>
Polydeoxyribonucleotides from bovine lung or other mammalian organs with
molecular weight between 15,000 and 30,000 |
| p. 8 | omoconazolum
omoconazole | <i>in the chemical name replace "(E)" by "Z)"</i> |

WHO Chronicle, Supplement to Vol. 38, N. 6, 1984

International Nonproprietary Names (Rec. INN): List 24

- | | | |
|------|-------------------------------|--|
| p. 1 | ademetioninum
ademetionine | <i>the amendment in List 24 rec. is superseded and the chemical name should
be replaced by:</i>
(±)-5'-[({R}*)-3-amino-3-carboxypropyl]methylsulfonio]-5'-deoxy-
adenosine hydroxide, inner salt |
|------|-------------------------------|--|