Supplement to WHO Chronicle, 1985 Vol. 39, No. 41

International Nonpropiletary Names for Pharmaceutical Substances

In accordance with article 3 of the Procedure for the Selection of Recommended International Nonproprietary Names for Pharmaceutical Substances,² notice is hereby given that the following names are under consideration by the World Health Organization as Proposed International !proprietary Names. Comments on, or formal objections to, the proposed names may be forwarded by any person to the Pharmaceuticals unit of the World Health Organization within four months of the date of their publication in the WHO Chronicle, e.g., for List 54 Prop. INN not later than 28 February 1986.

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

Proposed International Nonproprietary Names (Prop. INN): List 543

Proposed International Nonproprietary Name (Latin, English) Chemical Name or Description, Molecular and Graphic Formulae Chemical Abstracts Service (CAS) registry number

acitematum acitemate

(\pm)-cis-3-carboxy-6,7,8,9-tetrahydro-6-methyl-4-oxo-4H-pyrido[1,2-a]-pyrimidine-9-acetic acid, 3-ethyl ester $C_{14}H_{18}N_2O_5$ 64405-40-9

Comprehensive information on the INN programme can be found in: WHO Technical Report Series, No. 581, 1975 (Nonproprietary Names for Pharmaceutical Substances. Twentieth Report of the WHO Expert Committee), ISBN 92.4 12081 4 (price. Sw. fr. 6—); an account of this publication will be found on page 27 of this Supplement (Annex 2). All names from Lists 1—47 of Proposed International Nonproprietary Names, together with a molecular formula index, will be found in *International Nonproprietary Names (INN) for Pharmaceutical Substances. Cumulative List No. 6, 1982, World Health Organization, Geneva (ISBN 92.4.056013.0) (price. Sw. fr. 55—) This publication consists, in the main, of a computer printout which groups together all the proposed and recommended international nonproprietary names (INN)—in Latin, English, French, Russian, and Spanish—published up to April 1982. The printout also indicates in which of the 47 individual lists of proposed names and 21 lists of recommended names each INN was originally published, and gives references to national nonproprietary names, pharmacopoeia monographs, and other sources. In addition, the list contains molecular formulae and Chemical Abstracts Service registry numbers. For easy reference, national nonproprietary names that differ from INN, molecular formulae, and Chemical Abstracts Service registry numbers are indexed in a series of annexes. A linal annex describes the procedure for selecting recommended INN and outlines the general principles to be followed in devising these names. All the textual material published in this volume appears in both English and French

These publications may be obtained, direct or through booksellers, from the sales agents listed on the back cover of the WHO Chronicle Orders from countries where sales agents have not yet been appointed may be addressed to World Health Organization, Distribution and Sales Service, 1211 Geneva 27, Switzerland

2 See Annex 1, p. 25

¹ Sent out separately in October 1985.

³ Other lists of proposed and recommended international nonproprietary names can be found in Cumulative List No. 6, 1982

amebucortum amebucort 11 β ,17,21-trihydroxy-6 α -methylpregn-4-ene-3,20-dione 21-acetate 17-butyrate $C_{28}H_{49}O_7$ 83625-35-8

amorolfinum amorolfine (\pm)-cis-2,6-dimethyl-4-[2-methyl-3-(p-tert-pentylphenyl)propyl]morpholint $C_{21}H_{38}NO$ 78613-35-1

$$\begin{array}{c} \mathbf{H} & \mathbf{CH_3} \\ \mathbf{N} - \mathbf{CH_2} - \mathbf{CH} - \mathbf{CH_2} - \mathbf{CH_3} \\ \mathbf{CH_3} \\ \mathbf{CH_3} \\ \mathbf{CH_3} \end{array}$$

anpirtolinum anpirtoline

4-[(6-chloro-2-pyridyl)thio]piperidine $C_{10}H_{13}CIN_2S$ 98330-05-3

atamestanum atamestane 1-methylandrosta-1,4-diene-3,17-dione $C_{zo}H_{ze}O_z$ 96301-34-7

atiprosinum atiprosin trans-1-ethyl-1,2,3,4,4a,5,6,12b-octahydro-4-isopropyl-12-methyl-pyrazino[2',3':3,4]pyrido[1,2-a]:ndole $C_{2o}H_{29}N_3$ 89303-63-9

brofarominum brofaromine

4-(7-bromo-5-methoxy-2-benzofuranyl)piperidine C₁₄H₁₆BrNO₂ 63638-91-5

cabergolinum cabergoline

1-[(6-allylergolin-8 β -yl)carbonyl]-1-[3-(dimethylamino)propyl]-3-ethylurea $C_{2s}H_{37}N_sO_2$ 81409-90-7

cicaprostum cicaprost

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[2-[(2E,3aS,4S,5R,6aS)-hexahydro-5-hydroxy-4-[(3S,4S)-3-hydroxy-4-methyl-1,6-nonadiynyl]-2(1H)-pentalenylidene]ethoxy]acetic acid $C_{22}H_{30}O_5$ 95722-07-9

cicletaninum cicletanine

(±)-3-(p-chlorophenyl)-1,3-dıhydro-6-methylfuro[3,4-c]pyridin-7-ol $\rm C_{14}H_{12}CINO_2$ 89943-82-8

cilazaprilatum cilazaprilat

(1S,9S)-9-[[(S)-1-carboxy-3-phenylpropyl]amino]octahydro-10-oxo-6H-pyridazino[1,2-a][1,2]diazepine-1-carboxylic acid $\rm C_{zo}H_{zr}N_3O_s$ 90139-06-3

cimaterolum cimaterol

(\pm)-5-[1-hydroxy-2-(isopropylamino)ethyl]anthranilonitrile $C_{12}H_{17}N_3O$ 54239-37-1

cinoxopazidum cinoxopazide

1-[(E)-3,4-(methylenedioxy)cinnamoyl]-4-[(1-pyrrolidinylcarbonyl)methyl]piperazine

C₂₀H₂₅N₃O₄

88053-05-8

cistinexinum cistinexine

dibenzyl [dithiobis](R)-1-[[4,6-dibromo-a-(cyclohexylmethylamino)-otolyl]carbamoyl]ethylene]]dicarbamate CsoHeoBraNeOsS2 86042-50-4

citatepinum citatepine

 $2,3,4,5\text{-}tetra hydro-3-methyl-1} \textit{H-}dibenzo[2,3:6,7] thiepino[4,5-d] azepine-7-dibenzo[2,3:6,7] thiepino[4,5-d] azepine-7-dibenzo[4,5-d] aze$ carbonitrile C₂₀H₁₀N₂S 65509-66-2

clomifenoxidum clomifenoxide

 $2\hbox{-}[p\hbox{-}(2\hbox{-}chloro\hbox{-}1,2\hbox{-}diphenylvinyl)phenoxy] triethylamine \textit{N-}oxide$ C25H24CINO, 97642-74-5

$$CI = C$$

$$O - CH_2 - CH_2 - N(C_2H_5)_2$$

dametralastum dametralast

2,4-diamino-7-methylpyrazolo[1,5-a]-s-triazine $C_sH_bN_s$ 71680-63-2

dazoquinastum dazoquinast

imidazo[1,2-a]quinoxalıne-2-carboxylic acıd $C_{11}H_7N_3O_2$ 76002-75-0

delaprilum delapril

ethyl (S)-2-[[1-(S)-[(carboxymethyl)-2-indanylcarbamoyl]ethyl]amino]-4-phenylbutyrate $\rm C_{24}H_{32}N_2O_5$ 83435-66-9

dexfenfluraminum dexfenfluramine

(+)-(S)-N-ethyl- α -methyl-m-(trifluoromethyl)phenethylamine $C_{12}H_{16}F_{13}N$ 3239-44-9

$$GH_2 = CH_3 - CH_3$$

dosergosidum dosergoside

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N-[(1S,2R,3E)-2-hydroxy-1-(hydroxymethyl)-3-heptadecenyl]-6-methylergoline-8 β -carboxamide $C_{34}H_{ss}N_3O_3$ 87178-42-5

draquinololum draquinolol

3-[ρ -[3-(tert-butylamıno)-2-hydroxypropoxy]phenyl]-7-methoxy-2-methylisocarbostyril $C_{24}H_{30}N_2O_4$ 67793-71-9

duoperonum duoperone p-fluorophenyl 1-[3-[2-(trifluoromethyl)phenothiazin-10-yl]propyl]-4-piperidyl ketone

C28H28F4N2OS

62030-88-0

enefexinum enefexine 4-(p-ethylphenyl)piperidine C₁₃H₁₉N 67765-04-2

eptaprostum eptaprost 4-[2-[(2E,3aS,4S,5R,6aS)-hexahydro-5-hydroxy-4-[(3S,4S)-3-hydroxy-4-methyl-1,6-nonadiyny]-2(1H)-pentalenylidene]ethoxy]butyric acid C₂₄H₃₄O₅ 90693-76-8

erizepinum erizepine 1,2,3,4,5,10-hexahydro-3,10-dimethylazepino[4,5-d]dibenz[b,f]azepine $C_{20}H_{22}N_2$ 96645-87-3

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esupronum esuprone 7-hydroxy-3,4-dimethylcoumarin ethanesulfonate $C_{13}H_{14}O_sS$ 91406-11-0

$$\mathbf{H_3C-CH_2} - \mathbf{SO_2} - \mathbf{O} \\ \\ \mathbf{CH_3} \\ \\ \mathbf{CH_3$$

felbamatum felbamate 2-phenyl-1,3-propanediol dicarbamate $C_{11}H_{14}N_2O_4$ 25451-15-4

felbinacum fe^{rb}iлас

4-biphenylacetic acid C₁₄H₁₂O₂ 5728-52-9

fenfluthrinum fenfluthrin

2,3,4,5,6-pentafluorobenzyl (1R,3S)-3-(2,2-dichlorovinyl)-2,2-dimethyloyclopropanecarboxylate $C_{1s}H_{11}Cl_2F_sO_2$ 75867-00-4

florfenicolum florfenicol 2,2-dichloro-N-[(aS, βR)-a-(fluoromethyl)- β -hydroxy-p-(methylsulfonyl)-phenethyl]acetamide C₁₂H₁₄Cl₂FNO₄S 76639-94-6

fluconazolum fluconazole 2,4-difluoro-a,a-bis(1H-1,2,4-triazol-1-ylmethyl)benzyl alcohol $C_{13}H_{12}F_2N_gO$ 86386-73-4

formidacillinum formidacillin (2S,5R,6R)-6-[(R)-2-(3,4-dihydroxyphenyl)-2-(4-ethyl-2,3-dioxo-1-piperazine-carboxamido)acetamido]-6-formamido-3,3-dimethyl-7-oxo-4-thia-1-azabicy-clo[3,2.0]heptane-2-carboxylic acid $\rm C_{24}H_{28}N_6O_{10}S$ 98048-07-8

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gepironum gepirone 3,3-dimethyl-N-[4-[4-(2-pyrimidinyl)-1-piperazinyl]butyl]glutarimide $C_{19}H_{29}N_5O_2$ 83928-76-1

gloximonamum gloximonam [[(2S,3S)-3-[(2-amino-4-thiazolyl)glyoxylamido]-2-methyl-4-oxo-1-azetidinyl]oxylacetic acid, ester with tert-butyl glycolate, 3^2 -(Z)-(O-methyloxime) $C_{18}H_{25}N_5O_8S$ 90850-05-8

hydrocortisoni aceponas hydrocortisone aceponate 11 β ,17,21-trihydroxy pregn-4-ene-3,20-dione 21-acetate 17-propionate $C_{24}H_{38}O_7$ 74050-20-7

idralfidinum idralfidine 4,2-cresotaldehyde 2-imidazofin-2-ylhydrazone $C_{11}H_{14}N_4O$ 95668-38-5

$$HO \longrightarrow CH = N - NH \longrightarrow N$$

ifoxetinum ifoxetine

 (\pm) -cis-4-(2,3-xylyloxy)-3-piperidinol $C_{13}H_{15}NO_2$ 66208-11-5

indatralınum indatraline $(\pm)\text{-}trans\text{-}3\text{-}(3,4\text{-}dichlorophenyl})\text{-}N\text{-}methyl\text{-}1\text{-}indanamine}$ $C_{1s}H_{1s}Cl_zN$ 86939-10-8

inocoteranum inocoterane 17β-hydroxy-2,5-seco-A-dinorestr-9-en-5-one $C_{16}H_{24}O_2$ 83646-97-3

iomeprolum iomeprol N,N'-bis(2,3-dihydroxypropyl)-2,4,6-triiodo-5-(N-methylglycolamido)-isophthalamide $C_{17}H_{22}I_3N_3O_8$ 78649-41-9

$$\begin{array}{c|c} \text{OH} & \text{OH} \\ \text{O} & \text{C} & \text{NH} - \text{CH}_2 - \text{CH} - \text{CH}_2 \text{OH} \\ \\ \text{HOCH}_2 - \overset{\circ}{\text{C}} & \text{NH} - \overset{\circ}{\text{CH}}_2 - \overset{\circ}{\text{CH}} - \text{CH}_2 \text{OH} \\ \\ \text{CH}_3 & \text{I} & \text{O} \end{array}$$

iosarcolum iosarcol 3,5-diacetamido-2,4,6-triiodo-*N*-methyl-*N*[[methyl(p-gluco-2,3,4,5,6-pentahydroxyhexyl)carbamoyl]methyl]benzamide $C_{21}H_{29}I_3N_4O_9$ 97702-82-4

ipsapironum ipsapirone 2-[4-[4-(2-pyrimidinyl)-1-piperazinyl]butyl]-1,2-benzisothiazolin-3-one 1,1-dioxide $C_{1s}H_{2s}N_sO_sS$ 95847-70-4

irindalonum irindalone (+)-(1R,3S)-1-[2-[4-[3-(p-fluorophenyl)-1-indanyl]-1-piperazinyl]ethyl]-2-imidazolidinone $C_{2a}H_{2s}FN_4O$ 96478-43-2

isepamicinum Isepamicin O-6-amino-6-deoxy-a-p-glucopyranosyl-(1 \rightarrow 4)-O-[3-deoxy-4-C-methyl-3-(methylamino)- β -L-arabinopyranosyl-(1 \rightarrow 6)]-2-deoxy-N'-[(S)-isoseryl]-p-streptamine

C₂₂H₄₃N₅O₁₂

58152-03-7

isomazolum isomazole 2-[2-methoxy-4-(methylsulfinyl)phenyl]-1H-imidazo[4,5-c] pyridine $C_{14}H_{13}N_3O_2S$ 86315-52-8

lilopristonum lilopristone 11 β -[ρ -(dimethylamino)phenyl]-17 β -hydroxy-17-[(Z)-3-hydroxypropenyl]estra-4,9-dien-3-one $C_{28}H_{37}NO_3$ 97747-88-1

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lodazecarum lodazecar 1-[1,1-bis(hydroxymethyl)ethyl]-3-[(S)-6-bromo-5-(o-chlorophenyl)-2,3-dihydro-1,3-dimethyl-2-oxo-1H-1,4-benzodiazepin-7-yl]urea $C_{zz}H_{z4}BrClN_4O_4$ 87646-83-1

loratadınum loratadine ethyl 4-(8-chloro-5,6-dihydro-11H-benzo[5,6]cyclohepta[1,2-b]pyridin-11-ylıdene)-1-piperidinecarboxylate $C_{22}H_{23}CIN_2O_2$ 79794-75-5

maroxepinum maroxepin 2,3,4,5-tetrahydro-3-methyl-1H-dibenz[2,3:6,7]oxepino[4,5-d]azepine $C_{18}H_{18}NO$ 65509-24-2

medorinonum medorinone 5-methyl-1,6-naphthyridin-2(1*H*)-one C₉H₈N₂O 88296-61-1

mergocriptinum mergocriptine 2-methyl- α -ergocryptine $C_{99}H_{49}N_5O_5$ 81968-16-3

mitoquidonum mitoquidone 5.14-dihydrobenz[5,6]isoindolo[2,1-b]isoquinoline-8,13-dione $C_{20}H_{13}NO_2$ 91753-07-0

natenodonum natenodone (\pm) -2-[2-(dimethylamino)ethyl]-3,4-dihydro-2-phenyl-1(2H)-naphthalenone $C_{z_0}H_{z_3}NO$ 92615-20-8

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neflumozidum neflumozide 1-[1-[3-(6-fluoro-1,2-benzisoxazol-3-yl)propyl]-4-piperidyl]-2-benzimidazolinone $\rm C_{22}H_{23}FN_4O_2$ 86636-93-3

$$\mathsf{F} \underbrace{\mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{CH}_2 - \mathsf{N}}_{\mathsf{CH}_2} \underbrace{\mathsf{H}}_{\mathsf{N}} \underbrace{\mathsf{O}}_{\mathsf{N}} \underbrace{\mathsf{N}}_{\mathsf{N}} \underbrace$$

netobiminum netobimin methył [N-[2-nitro-5-(propylthio)phenyl]-N'-(2-sulfoethyl)amidino]carbamate $C_{14}H_{20}N_4O_7S_2$ 88255-01-0

$$H_3C - CH_2 - CH_2 - S$$
 $N = C$
 $NH - CH_2 - CH_2 - SO_3H$
 $NH - CH_2 - CH_3 - SO_3H$
 $NH - CH_3 - CH_3$
 $NH - CH_3 - CH_3$

nictiazemum nictiazem (+)-cis-5-[2-(dimethylamino)ethyl]-2,3-dihydro-3-hydroxy-2-(ρ -methoxy-phenyl)-1,5-benzothiazepin-4(5H)-one nicotinate (ester) $C_{ze}H_{z7}N_3O_4S$ 95058-70-5

niperotidinum niperotidine N-[2-[[5-[(dimethylamino)methyl]furfuryl]thio]ethyl]-2-nıtro-N'-pıperonyl-1,1-ethenediamine

C₂₀H₂₆N₄O₅S

B4845-75-0

$$(H_{1}C)_{2}N-CH_{2} O CH_{2}-S-CH_{2}-CH_{2}-NH-C-NH-CH_{2} CH_{2}-NH-CH_{2} CH_{2}-NH-CH_{2} CH_{2}-NH-CH_{2} CH_{2}-NH-CH_{2} CH_{2}-NH-CH_{2$$

oximonamum oximonam [[(2S,3S)-3-[(2-amino-4-thiazolyl)glyoxylamido]-2-methyl-4-oxo-1-azetidinyl]oxy]acetic acid, 3^2 -(Z)-(O)-methyloxime) $C_{12}H_{13}N_3O_eS$ 90898-90-1

oxindanacum oxindanac (\pm) -5-benzoyl-6-hydroxy-1-indancarboxylic acid $C_{17}H_{14}O_4$ 68548-99-2

piritreximum piritrexim 2,4-diamino-6-(2,5-dimethoxybenzyl)-5-methylpyrido[2,3-d] pyrimidine $\rm C_{17}H_{19}N_5O_2$ 72732-56-0

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preclamolum preclamol (–)-(S)-m-(1-propyl-3-piperidyl)phenol C₁₄H₂₁NO 85966-89-8

prenoxdiazınum prenoxdiazıne

1-[2-[3-(2,2-diphenylethyl)-1,2,4-oxadiazol-5-yl]ethyl]piperidine $C_{23}H_{27}N_3O$ 47543-65-7

prideperonum prideperone

5-cyano-N-[2-[4-(p-fluorobenzoyl)piperidino]ethyl]-o-anisamide $C_{z_3}H_{z_4}FN_{_3}O_{_3}$ 95374-52-0

quadazocinum quadazocine

(-)-(2R,6S,11S)-1-cyclopentyl-5-(1,2,3,4,5,6-hexahydro-8-hydroxy-3,6,11-trimethyl-2,6-methano-3-benzazocin-11-yl)-3-pentanone $\rm C_{2s}H_{37}NO_2$ 71276-43-2

quinaprılum quinapril

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(S)-2-[(S)-N-[(S)-1-carboxy-3-phenylpropyl]alanyl]-1,2,3,4-tetrahydro-3-isoquinolinecarboxylic acid, 1-ethyl ester $\rm C_{2s}H_{3o}N_2O_5$ 85441-61-8

quinezamidum quinezamide

N-(5-methylpyrazolo[1,5-c]quinazolin-1-yl)acetamide $C_{13}H_{12}N_4O$ 77197-48-9

ractopaminum ractopamine

(\pm)-p-hydroxy-a-[[[3-(p-hydroxyphenyl)-1-methylpropyl]amıno]methyl]benzyl alcohol C₁₄H₂₃NO₃ 97825-25-7

raloxifenum raloxifene 6-hydroxy-2-(p-hydroxyphenyl)benzo $\{b\}$ thien-3-yl p-(2-piperidinoethoxy)-phenyl ketone $C_{2a}H_{27}NO_4S$ 84449-90-1

ramciclanum ramciclane 2-[(2-benzyl-2-bornyl)oxy]-N,N-dimethylethylamine $C_{21}H_{33}NO$ 96743-96-3

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_2 \\ \text{O} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{NICH}_3)_2 \end{array}$$

reboxetinum reboxetine

(±)-(2 R^*)-2-[(aR^*)-a-(o-ethoxyphenoxy)benzyl]morpholine C₁₈H₂₃NO₃ 71620-89-8

recainamum recainam

1-[3-(isopropylamino)propyl]-3-(2,6-xylyl)urea C_{1s}H_{2s}N₃O 74738-24-2

$$\begin{array}{c} \text{CH}_{3} \\ \text{NH} - \overset{\text{C}}{\text{C}} - \text{NH} - \text{CH}_{2} - \text{CH}_{2} - \text{CH}_{2} - \text{NH} - \text{CH(CH}_{3})_{2} \\ \text{CH}_{3} \end{array}$$

rımcazolum rimcazole 9-[3-(cis-3,5-dimethyl-1-piperazinyl)propyl]carbazole $C_{21}H_{22}N_3$ 75859-04-0

$$\begin{array}{c} \operatorname{CH_2-CH_2-CH_2-N} \\ \operatorname{H_3C-H} \\ \end{array}$$

rodorubicinum rodorubicin 7 `` $\begin{array}{ll} (1S,3R,4R)\text{-}3\text{-}ethyl\text{-}1,2,3,4,6,11-hexahydro-}3,5,10,12\text{-}tetrahydroxy-}6,11\text{-}dioxo-}4-[[2,3,6\text{-}trideoxy-}3\text{-}(dimethylamino})\text{-}\alpha\text{-}\iota\text{-}lyxo\text{-}hexopyranosyl}]\text{o}xy]\text{-}1-naphthacenyl} O\text{-}3,6\text{-}dideoxy-}\alpha\text{-}\iota\text{-}erythro\text{-}hexopyranos-}4\text{-}ulosyl\text{-}(1\rightarrow4)\text{-}O\text{-}2,6\text{-}dideoxy-}\alpha\text{-}\iota\text{-}lyxo\text{-}hexopyranosyl\text{-}(1\rightarrow4)\text{-}2,3,6\text{-}trideoxy\text{-}3\text{-}(dimethylamino})\text{-}\alpha\text{-}\iota\text{-}lyxo\text{-}hexopyranoside}, 2'',3'\text{-}anhydride}\\ C_{4\text{B}}H_{64}N_{2}O_{17} \qquad 96497\text{-}67\text{-}5 \end{array}$

1 11

rolziracetamum rolziracetam

dihydro-1H-pyrrolizine-3,5(2H,6H)-dione $C_7H_9NO_2$ 18356-28-0

roxatidinum roxatidine

N-[3-[(α -piperidino-m-tolyl)oxy]propyl]glycolamide $C_{17}H_{28}N_2O_3$

roxithromycinum roxithromycin

erythromycin 9-[O-[(2-methoxyethoxy)methyl]oxime] $C_{41}H_{76}N_2O_{15}$ 80214-83-1

somatremum somatrem

N-L-methionylgrowth hormone (human) $C_{995}H_{1537}N_{263}O_{301}S_8$ 82030-87-3

sometribovum sometribove N-t-methionylgrowth hormone (ox) $C_{97a}H_{1540}N_{25a}O_{286}S_{g}$.

sopecainolum sopecainol (1 R^* ,2 S^*)-2-[[(S^*)-1-methyl-2-phenoxyethyl]amino]-1-phenyl-1,3-propanediol $C_{10}H_{23}NO_3$ 68567-30-6

sufotidinum sufotidine 1-[m-[3-[[1-methyl-3-[(methylsolfonyl)methyl]-1H-1,2,4-triazol-5-yl]amıno]-propoxy]benzyl]piperidine $C_{zo}H_{31}N_sO_3S$ 80343-63-1

sumacetamolum sumacetamol

N-acetyl-oL-methionine, ester with 4'-hydroxyacetanilide $C_{15}H_{20}N_2O_aS$ 69217-67-0

$$\begin{array}{c} & 0 \\ \text{H}_{3}\text{C} - \text{S} - \text{CH}_{2} - \text{CH}_{2} - \text{CH} - \overset{\circ}{\text{C}} - \text{O} & \\ \text{I} \\ \text{NH} - \overset{\circ}{\text{C}} - \text{CH}_{3} \\ \end{array} \\ \begin{array}{c} \text{O} \\ \text{II} \\ \text{C} - \text{CH}_{3} \\ \end{array}$$

tampraminum tampramine

11-[3-(dimethylamıno)propyl]-6-phenyl-11H-pyrido[2,3-b][1,4]benzodiazepine $C_{23}H_{24}N_4$ 83166-17-0

teceleukinum teceleukin

N-L-methionylinterleukın 2 (human protein moiety reduced) 94218-75-4

temarotenum

1,2,3,4-tetrahydro-1,1,4,4-tetramethyl-6-[(E)- α -methylstyryl]naphthalene C₂₃H₂₈ 75078-91-0

temelastinum temelastine

2-[[4-(5-bromo-3-methyl-2-pyridyl)butyl]amino]-5-[(6-methyl-3-pyridyl)methyl]-4(1*H*)-pyrimidinone $C_{z_1}H_{z_4}BrN_sO$ 86181-42-2

timelotemum timelotem

(\pm)-10-fluoro-1,2,3,4,4a,5-hexahydro-3-methyl-7-(2-thienyl)pyrazino[1,2a][1,4]benzodiazepine C,,H,,FN,S 96306-34-2

tipredanum tipredane

9-fluoro-11 β -hydroxyandrosta-1,4-diene-3,17-dione (17R)-17-(ethyl methyl mercaptole) C22H31FO2S,

85197-77-9

trazii esilas trazium esilate

1-(p-chlorophenyl)-1,2-dihydro-1-hydroxy-as-triazino[6,1-a]isoquinolin-5-ium ethanesulfonate C, H, CIN, O,S 97110-59-3

tribendilolum tribendilol

 $(\pm)\text{-1-}(1H\text{-benzotriazol-4-yloxy})\text{-3-}[[2\text{-}(o\text{-methoxyphenoxy})\text{ethyl}]\text{-}$ amino]-2-propanol C1.H22N4O4 96258-13-8

tuvatidinum tuvatidine

[4-[[[2-[(5-amino-4-methyl-4H-1,24,6-thriatriazin-3-yl)amino]ethyl]thio]methyl]-2-thiazolyl]guanidine S'',S''-dioxide $C_{10}H_{17}N_{9}O_{2}S_{3}$ 91257-14-6

3 € € 2

ulobetasolum ulobetasol 21-chloro-6a,9-difluoro-11 β ,17-dihydroxy-16 β -methylpregna-1,4-diene-3,20-dione $C_{22}H_{27}CIF_2O_4$ 98651-66-2

zaltidinum ()dine [4-(2-methylmidazol-5-y!)-2-thiazolyl]quanidine $C_{\bullet}H_{10}N_{\bullet}S$ 85604-00-8

zındotrinum zindotrine 8-methyl-piperidino-s-triazolo[4,3-b]pyridazine $C_{11}H_{16}N_5$ 56383-05-2

zindoxifenum zindoxifene 1-ethyl-2-(p-hydroxyphenyl)-3-methylindol-5-ol diacetate (ester) $C_{21}H_{21}NO_4$ 86111-26-4

 $t^{-1} \Pi^{k-1}$

H₃C-C-C-O-C-CH₃

Names for Radicals and Groups

Some substances for which a proposed international non-proprietary name has been established may be used in the form of salts or esters. 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 international non-proprietary names.

pivoxetilum pivoxetil

1-(2-methoxy-2-methyl-1-oxopropoxy)ethyl

22

AMENDMENTS TO PREVIOUS LISTS

Cumulative List N° 7, 1982

International Nonproprietary Names (INN) for Pharmaceutical Substances

delete

insert

p. 151 heparinum heparin heparinum natricum heparin sodium

Vol. 39, (May 1985)

International Nonproprietary Names (Prop. INN): List 53

p azamulinum azamulin

replace the structure by the following:

p. 9 efrotomycinum efrotomycin replace the structure for A2.R by the following:

itrocainidum itrocainide

complete the upper cycle in the structure with a double bond

p. 14 midalcipranum midalcipran replace H₂₁ in the molecular formula by H₂₂

p. 15 mifepristonum mifepristone replace the structure by the following:

p. 19 rokitamycinum rokitamycine

replace the structure by the following:

p. 20 tolgabidum tolgabide

replace the CAS reg. no. by 86914-11-6

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Annex 1 PROCEDURE FOR THE SELECTION OF RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES*

The following procedure shall be followed by the World Health Organization in the selection of recommended international nonproprietary names for pharmaceutical substances, in accordance with the World Health Assembly resolution WHA3 11

- 1 Proposals for recommended international nonproprietary names shall be submitted to the World Health Organization on the form provided therefor
- 2. Such proposals shall be submitted by the Director-General of the World Health Organization to the members () be Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations designated for this purpose, for consideration in accordance with the "General principles for guidance in devising International Nonproprietary Names", appended to this procedure. The name used by the person discovering or first developing and marketing a pharmaceutical substance shall be accepted, unless there are compelling reasons to the contrary
- 3. Subsequent to the examination provided for in article 2, the Director-General of the World Health Organization shall give notice that a proposed international nonproprietary name is being considered.
- A. Such notice shall be given by publication in the Chronicle of the World Health Organization¹ and by letter to Member States and to national pharmacopoela commissions or other bodies designated by Member States.
 - (I) Notice may also be sent to specific persons known to be concerned with a name under consideration.

- B. Such notice shall;
- (i) set forth the name under consideration;
- (ii) identify the person who submitted a proposal for naming the substance, if so requested by such person;
- (iii) identify the substance for which a name is being considered:
- (iv) set forth the time within which comments and objections will be received and the person and place to whom they should be directed:
- (v) state the authority under which the World Health Organization is acting and refer to these rules of procedure
- C. In forwarding the notice, the Director-General of the World Health Organization shall request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the proposed name during the period it is under consideration by the World Health Organization.
- 4. Comments on the proposed name may be forwarded by any person to the World Health Organization within four months of the date of publication, under article 3, of the name in the Chronicle of the World Health Organization.
- 5. A formal objection to a proposed name may be filed by any interested person within four months of the date of publication, under article 3, of the name in the Chronicle of the World Health Organization.
 - A. Such objection shall:
 - (i) identify the person objecting:
 - (ii) state his interest in the name;
 - (iii) set forth the reasons for his objection to the name proposed.

- 6. Where there is a formal objection under article 5, the World Health Organization may either reconsider the proposed name or use its good offices to attempt to obtain withdrawal of the objection Without prejudice to the consideration by the World Health Organization of a substitut name or names, a name shall not be selected by the World Health Organization as a recommended international nonproprietary name while there exists a formal objection thereto filed under article 5 which has not been withdrawn.
- 7 Where no objection has been filed under article 5, or all objections previously filed have been withdrawn, the Director-General of the World Health Organization shall give notice in accordance with subsection A of article 3 that the name has been selected by the World Health Organization as a recommended international nonproprietary name.
- 8. In forwarding a recommended international nonproprietary name to Member States under article 7, the Director-General of the World Health Organization shall:
- A. request that it be recognized as the nonproprietary name for the substance, and
- B. request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the name, including prohibiting registration of the name as a trade-mark or trade-name.
- *Text adopted by the Executive Board of WHO in resolution EB15.R7 (Off. Rec. Wid Hith Org., 1955, 60, 3) and amended by the Board in resolution EB43 R9 (Off. Rec. Wid Hith Org., 1969, 173, 10)
- 10)

 1 The title of this publication was changed to WHO Chromicle in January 1959

GENERAL PRINCIPLES FOR GUIDANCE IN DEVISING INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES

- InternationalNonproprietaryNames (INN) should be distinctive in sound and spelling. They should not be inconveniently long and should not be liable to confusion with names in common use.
- 2. The INN for a substance belonging to a group of pharmacologically related substances should, where appropriate, show this relationship. Names that are likely to convey to a patient an anatomical, physiological,

pathological or therapeutic suggestion should be avoided.

These primary principles are to be implemented by using the following secondary principles

- In devising the INN of the first substance in a new pharmacological group, consideration should be given to the possibility of devising suitable INN for related substances, belonging to the new group.
- 4. In devising INN for acids, one-word names are preferred; their salts should be named without modifying the acid name, e.g. "oxacillin" and "oxacillin sodium", "ibufenac" and "ibufenac sodium".
- 5. INN for substances which are used as salts should in general apply to the active base or the active acid. Names for different salts or esters of the same active substance should differ

only in respect of the name of the inactive acid or the inactive base.

For quaternary ammonium substances, the cation and anion should be named appropriately as separate components of a quaternary substance and not in the amine-salt style.

- 6. The use of an isolated letter or number should be avoided; hyphenated construction is also undesirable.
- 7. To facilitate the translation and pronunciation of INN, "f" should be

used instead of "ph", "t" instead of "th", "e" instead of "ae" or "oe", and "i" instead of "y", the use of the letters "h" and "k" should be avoided.

8 Provided that the names suggested are in accordance with these principles, names proposed by the person discovering or first developing and marketing a pharmaceutical preparation, or names already officially in use in any country, should receive preferential consideration.

9. Group relationship in INN (see Guiding Principle 2) should if possible be shown by using a common stem. The following list contains examples of stems for groups of substances, particularly for new groups. There are many other stems in active use. Where a stem is shown without any hyphens it may be used anywhere in the name.

-acum -ac anti-inflammatory agents of the ibufenac group -actidum -actide synthetic polypeptides with a corticotrophin-like action -adoladol- analgesics -astum -ast anti-asthmatic, anti-allergic substances not acting primarily	y as antihistam. 🕺
anti-astrinatic, anti-allergic substances not acting primarily	y as antihistam. 🥇
-astrnum -astine -azepamum -azepam -bactamum -bactam bol bol bol steroids, anabolic -caincaincaine cefcillinum -cillin cort cort cort -dipinum -diprate -forminum -formin gest gest gest gli- ioium -ium -metacınum -metacin -mycinum -midazolum -nidazolum -nidazole -ololum -ololum -originum -pride -profenum -profen -profenum -profen -profenum -profen -terolum -tidinum -trexatum -trexatur -verinum -vimvinvinvinvinastine -antihistaminics -substances of the diazepam group substances of the phenylbutazone group substances of the phenylbutazone group antihistaminics -substances of the phenylbutazone group anti-inflammatory analgesics of the phenylbutazone group anti-inflammatory substances with local anaesthetic activity iocal anaesthetics anti-inflammatory of G-adiosporanic acid anti-inflammatory substances of the nifedipine group prost gest steroids, except those of the nifedipine group progenty antibiotics, derivatives of G-aminopenicillanic acid cort cort cort cort corticosteroids, except those of the nifedipine group progenty antibiotics, derivatives of G-aminopenicillanic acid cort cort cort cort corticosteroids, except those of the nifedipine group progenty antibiotics, derivatives of G-aminopenicillanic acid cort cort cort cort corticosteroids, except those of the prednisolone group antibiotics, derivatives of G-aminopenicillanic acid cort cort cort corticosteroids, except those of the nifedipine group substances of the olifedipine group progest gest steroids, derivatives of G-aminopenicillanic acid cort cort corticosteroids, except those of the prednisolone group progest gest steroids, derivatives of G-aminopenicillanic acid cort corticosteroids, except those of the prednisolone group substances of the oloribrate group substances of the infedipine group substances of the oloribrate group substances of the oloribrate	,

A more extensive listing of stems is contained in the working document Pharm S/Nom 15 which is regularly updated and can be requested from Pharmaceuticals, WHO, Geneva.

Annex 2 NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES: TWENTIETH REPORT OF THE WHO EXPERT COMMITTEE

In its twentieth report1 the WHO Expert Committee on Nonproprietary Names for Pharmaceutical Substances reviewed the general principles for devising, and the procedures for selecting, international nonproprietary names (INN) in the light of developments in pharmaceutical compounds in recent years. The most significant recent change has been the extension to the naming of synthetic chemical substances of the practice previously used for substances originating in or derived from natural products. This practice involves employing a characteristic "stem" indicative of a common prope pf the members of a group. The sons for, and the implications of, the change are fully discussed. Also

reported is the intention to change the practice with regard to the nomenclature of individual members of polymeric series.

Other sections of the report concern instructions to be followed by bodies making application for international nonproprietary names, the availability of computer-printed cumulative lists of international nonproprietary names, information supplied by WHO Member States concerning their official use of national or international names for pharmaceutical products, and proposals relative to the withdrawal of international nonproprietary names allocated to substances that are no longer in use

The official texts relating to the procedures for selecting, and general

guidance for devising, international nonproprietary names are reproduced in two annexes to the report Other annexes give examples of international nonproprietary names that incorporate selected stems, the most frequently used initial groups of letters in international nonproprietary names, a historical review of the programme of selecting international nonproprietary names, some useful literature references, and a model of the form to be used in all applications for international nonproprietary names.

¹WHO Technical Report Series, No. 581, 1975 (Nonproprietary Names for Pharmaceutical Substances. Twentieth Report of the WHO Expert Committee), ISBN 92 4 1205814 Price. Sw. fr. 6 –