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Pre-stems:*
Suffixes used in the selection of INN
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Programme on International Nonproprietary Names (INN)

Medicines and Health Products

World Health Organization,
Geneva

**The prestems given have been flagged because they may be selected as official stems ("The use of stems in the selection of International Nonproprietary Names for Pharmaceutical Substances", 2018, WHO/EMP /RHT/TSN/2018.1). At present, they are made available for information and potential guidance to the applicants.*

stem *definition*

-suffix

-infix-

In bold: new pre-stems selected during the last Consultation.

<u>In bold and underlined:</u> pre-stems promoted as stems

-afine	**squalene monooxygenase inhibitors, antifungals**
-algron	α_1-adrenoreceptor agonists
-alkib	ALK (anaplastic lymphoma kinase) inhibitors
-ampator	α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators
-ase *-fotase* *-liase*	enzymes alkaline phosphatase lyases (EC class 4)
-ast ***-noflast***	anti-allergic and anti-inflammatory, not acting as antihistaminics **inflammasome protein NLRP3 inhibitors**
-atovir	see *vir*
-batinib	see *-tinib*
-berel	beta estrogen receptor agonists
-caltamide	T-type calcium channel blockers
-camra	intracellular adhesion molecule (ICAM-1) derivatives
-camtiv	cardiac myosin activators
-capavir	see *vir*
-caprant	**kappa-opioid receptor (KOR) antagonists**
-casan	caspase inhibitors

-caserin	serotonin receptor agonists (mostly 5-HT_2)
-cept *-rpacept* *-tacicept*	receptor molecules or membrane ligands, native or modified SIRPα receptor proteins TACI (TNFRSF13B)-derived TNF receptors
-cirnon	CC chemokine receptor (CCR) antagonists
-citide	see *tide*
-codar	see *dar*
-cridar	see *dar*
-corvir	see vir
-covatein	**see *-vatein***
-dacin	antibiotics, DNA gyrase and topoisomerase IV inhibitors
dar *-codar* *-cridar* *-spodar*	*drugs used in multidrug resistance* pipecolinate derivatives acridinecarboxamide derivatives ciclosporin D derivatives
-delpar	PPAR delta agonists
-depsin	depsipeptide derivatives
-desivir	see *vir*
-dirsen	see *-rsen*
-drimer	**see *mer***
-dutide	see *-tide*
-ectedin	ecteinascidin derivatives
-fadine	monoamine transport inhibitors
-farnib	farnesyl transferase inhibitors

-fenicol	**antibacterial antibiotics, chloramphenicol analogues**
-fibatide	see *tide*
-folastat	see *-stat*
-forant	histamine H_4 receptor antagonists
-fotase	see *-ase*
-fulven	antineoplastics, acylfulvene derivatives
-gapil	neuronal apoptosis inhibitors, GAPDH
-glanstat	see *stat*
-gli *-gliatin* ***-glipron***	antihyperglycaemics glucokinase activators **glucagon-like peptide 1 receptor (GLP1R) agonists**
-gratinib	see *-tinib*
-grel *-grelor*	platelet aggregation inhibitors P2Y12 purinoceptor (ADP-glucose receptor) antagonists
-imepodib	inosine monophosphate dehydrogenase inhibitors
-inapant	inhibitors of inhibition-of-apoptosis proteins (IAPs)
-kalner	openers of calcium-activated (maxi-K) K^+-channels
-leptin(e)	leptin derivatives
-liase	see *-ase*
-lintide	see *-tide*
-loride	**epithelial sodium channel (ENaC) inhibitors, amiloride derivatives**
mab *-ami-*	*monoclonal antibodies* serum amyloid protein (SAP)/amyloidosis
-melagon	**non-peptidic melanocortin receptor agonists**

-melanotide	see *-tide*
-menib	**menin interaction inhibitors**
-mer ***-drimer***	*polymers* **dendritic polymers (dendrimers)**
-metkib	MET (mesenchymal epithelial transition factor) kinases inhibitors
-moren	non-peptidic growth hormone secretagogues
-nesib	kinesin inhibitors
-neurin	neurotrophins
-nexor	nuclear export inhibitors
-nil *-punil*	*benzodiazepine receptor antagonists/agonists* mitochondrial benzodiazepine receptor (MBR)-selective agonists, also partial or inverse (purine derivatives)
-nod	**nitrogen monoxide (nitric oxide, NO) donors**
-noflast	**see *-ast***
-nontrine	phosphodiesterase 9 (PDE9) inhibitors
-opran	μ-opioid receptors antagonists
-(o)pterin	**pteridine derivatives**
-osuran	urotensin receptor antagonists
-otilate	hepatoprotectants, di(propan-2-yl- 2-(2*H*-1,3-dithiol-2-ylidene)propanedioate and analogues
-parantag	antagonists of heparin and/or low-molecular weight heparins (LMWH)
-paratide	see *tide*
-paxar	protease activated receptor type 1 (PAR1) antagonists
-pertin	glycine transporter inhibitors

-pirdine	serotonin receptor antagonists
-pivat	**pyruvate kinase activators**
-pixant	purinoreceptor (P2X) antagonists
-plam	**SMN2 gene splicing modulators (small molecules)**
-plasinin	inhibitors of plasminogen activator inhibitors-type 1 (PAI-1)
-podect	phosphodiesterase 10A (PDE10A) inhibitors
-plenib	Spleen tyrosine kinase (Syk) inhibitors
-prinim	nootropic agents, purine derivatives
-prodil	***N*-methyl-D-aspartate (NMDA) receptor antagonists**
-protafib	protein tyrosine phosphatase (HPTP) inhibitors
-pultide	**see *-tide***
-punil	see *nil*
-ralstat	see *-stat-/-stat*
-rasib	Ras protein inhibitors
-rocin	aminoacyl-tRNA synthetase inhibitors
-rogant	retinoic acid receptor-related orphan receptor gamma (RORγ) antagonists and inverse agonists
-rpacept	see *-cept*
-rsen *-dirsen*	*antisense oligunucleotides* splice-switching oligonucleotides, muscular dystrophies
-scein(e)	**fluorescent imaging agents, fluorescein derivatives**
-saicin	analgesics, capsaicin analogues
-setrag	serotonin (5-HT3/4) receptor agonists, prokinetics
-sidenib	**isocitrate dehydrogenase inhibitors**

-sopasem	superoxide dismutase (SOD) mimetics
-spodar	see *dar*
-stat-/-stat *-costat* *-dodstat* *-drostat* *-folastat* ***-glanstat*** *-ralstat*	*enzymes inhibitors* acetyl-CoA carboxylase inhibitors dihydroorotate dehydrogenase (DHODH) inhibitors aldosterone and cortisol synthesis inhibitors inhibitors of folate hydrolase 1 (prostate-specific membrane antigen, PSMA) **prostaglandin synthase inhibitors** kallikrein inhibitors
-sulind	antineoplastics, sulindac metabolites
-tacicept	see -cept
-terkib	ERK (extracellular signal-regulated kinases) inhibitors
-terone *-teronel*	*antiandrogens* non-steroid antiandrogens
-texafin	texaphyrin derivatives
-tide *-citide* ***-dutide*** *-fibatide* *-lintide* *-melanotide* ***-netide*** *-paratide* ***-pultide***	*peptides and glycopeptides* cardiovascular **oxyntomodulin analogues and other dual agonists of glucagon-like peptide receptor 1 (GLP-1R) and glucagon receptor (GCGR)** platelet aggregation inhibitor (GPIIb/IIIa receptor antagonist) amylin derivatives and analogues melanocortin receptor agonists **neurological** parathyroid hormone analogues **peptides and proteins, used in pulmonary surfactants**

-votide	PSMA (prostate-specific membrane antigen, glutamate carboxypeptidase 2)-binding peptides
-tinib *-batinib* *-gratinib*	*tyrosine kinase inhibitors* BCR-ABL kinases inhibitors fibroblast growth factor receptors (FGFR) inhibitors
-toran	*toll-like receptor antagonists*
-trep	**transient receptor potential antagonists**
-trombopaq	**thrombopoietin agonists**
-vancin	*vancomycin* related compounds
-vatein ***-covatein***	***protein vaccine substances*** **coronavirus**
vir *-atovir* *-capavir* *-corvir* *-desivir* *-trelvir* *-virenz* *-virimat*	*antivirals (undefined group)* RSV fusion protein inhibitors viral capsid and nucleocapsid inhibitors core protein (Cp) inhibitors RNA polymerase inhibitors, adenosine analogues, antivirals antiviral 3CL proteases inhibitors benzoxazinone derivatives antivirals, disruptors of viral maturation
-votide	see *tide*
-xian	**blood coagulation factor XI inhibitors**

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