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

Health Products Policy and Standards (HPS)

Access to Medicines and Health Products (MHP)

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 newly promoted as stems.

-adenant	antagonists of adenosine receptors
-algron	α_1-adrenoreceptor agonists
-alkib	ALK (anaplastic lymphoma kinase) inhibitors
-ampator	α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor modulators
-atovir	see *vir*
-batinib	see *tinib*
-bactam	β-lactamase inhibitors
-borbactam	β-lactamase inhibitors, boronic acid derivatives
<u>-bep</u>	<u>from *engineered or synthetic protein scaffolds, non-immunoglobulin variable domain derived*</u> **<u>to *engineered or synthetic scaffolds proteins with non-immunoglobulin variable derived binding domains*</u>**
-berel	beta estrogen receptor agonists
-borbactam	see *-bactam*
<u>-bresib</u>	**<u>inhibitors of the bromodomain and extra-terminal motif (BET) family of bromodomain (BRD) proteins, antineoplastics</u>**
-camra	intracellular adhesion molecule (ICAM-1) derivatives
-camtiv	cardiac myosin activators
-capavir	*see vir*
-casan	caspase inhibitors
-caserin	serotonin receptor agonists (mostly 5-HT_2)
-cianine	indocyanine fluorescence dye group

-closporin	ciclosporin derivatives
-codar	see *dar*
-corat	glucocorticoid receptor agonists
-corilant	**glucocorticoid receptor antagonists *(non-steroidal)***
-corvir	see *vir*
-cridar	see *dar*
-dacin	antibiotics, DNA gyrase and topoisomerase IV inhibitors
-dar	*drugs used in multidrug resistance*
-cridar	acridinecarboxamide derivatives
-codar	pipecolinate derivatives
-spodar	ciclosporin D derivatives
-delpar	**PPAR delta agonists**
-demstat	see *stat*
-depsin	depsipeptide derivatives
-dil	*vasodilators*
-sudil	**Rho protein kinase inhibitors**
-dutide	**see *-tide***
-ectedin	ecteinascidin derivatives
-enatide	**see *-tide***
-estrant	**estrogen antagonists, including estrogen receptor down-regulators**
-fadine	monoamine transport inhibitors
-farnib	farnesyl transferase inhibitors
-fenicol	antibacterial antibiotics, chloramphenicol analogues
-fibatide	see *tide*
-folastat	see *-stat*

-fulven	antineoplastic, acylfulvene derivatives
-ganan	antimicrobial, bactericidal permeability increasing polypeptides
-gapil	neuronal apoptosis inhibitors, GAPDH
-gratinib	*see -tinib*
-imepodib	inosine monophosphate dehydrogenase inhibitors
-inapant	inhibitors of inhibition-of-apoptosis proteins (IAPs)
-inurad	urate transporter inhibitors
-kalner	openers of calcium-activated (maxi-K) K^+-channels
-leptin(e)	leptin derivatives
-lintide	See *-tide*
mab under targets	*monoclonal antibodies*
-ami-	serum amyloid protein (SAP)/amyloidosis
-madlin	**E3 ubiquitin-protein ligase Mdm2 (Hdm2) inhibitors**
-melanotide	*see tide*
-meran	**messenger RNA (mRNA)**
-metkib	MET (mesenchymal epithelial transition factor) kinases inhibitors
-metostat	see *stat*
-moren	non-peptidic growth hormone secretagogues
-nersen	see *-rsen*
-nesib	kinesin inhibitors
-neurin	neurotrophins
-nexor	nuclear export inhibitors
nil	*benzodiazepine receptor antagonists/agonists*

-punil	mitochondrial benzodiazepine receptor (MBR)-selective agonists, also partial or inverse (purine derivatives)
-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)
-paxar	protease activated receptor type 1 (PAR1) antagonists
-pertin	glycine transporter inhibitors
-pirdine	serotonin receptor antagonists
-pixant	purinoreceptor (P2X) antagonists
-plasinin	inhibitors of plasminogen activator inhibitors-type 1 (PAI-1)
-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*