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DATASHEET

Amastatin hydrochloride

Product overview

Name	Amastatin hydrochloride
Cat No	HB3757
Purity	>98%
Description	Competitive aminopeptidase (AP) inhibitor

Biological Data

Biological description	Slow, tight binding and competitive aminopeptidase (AP) inhibitor. Inhibits cytosolic leucine aminopeptidase, microsomal aminopeptidase M and bacterial leucine aminopeptidase, human serum aminopeptidase A (AP-A), aminopeptidase N (AP-N), tyrosine aminopeptidase, but not of aminopeptidase B (AP-B). Amastatin is without effect on trypsin, papain, chymotrypsin, elastase, pepsin, or thermolysin. Inhibits completely the Suc-Ala-Ala-Pro-Leu-pNA amidolytic enzyme. Slightly inhibits the formation of angiotensin III (Ang III) from Ang II through AP-A, but significantly increases the potency of angiotensin III and des(Asp1)angiotensin I. Moderate inhibitor of mitochondrial intermediate peptidase (MIP). Weak inhibitor of simian immunodeficiency virus protease (SIV-PR).
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in aqueous buffers, and in ethanol
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	[(2S,3R)-3-Amino-2-hydroxy-5-methyl-hexanoyl]-Val-Val-Asp-OH Hydrochloride
Molecular Weight	511.1
Chemical structure	
Molecular Formula	C ₂₁ H ₃₈ N ₄ O ₈ .HCl
CAS Number	100938-10-1
PubChem identifier	0
SMILES	[Cl-].CC(C)C[C@@H](N)[C@H](O)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](C(C)C)C(=O)N[C@@H](CC(O)=O)C(O)=O.[H+]
InChiKey	GBDUPCKQTDKNLS-PORDUOSCSA-N
Appearance	White to off-white powder