

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

### Amastatin hydrochloride

#### Product overview

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

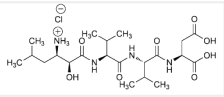
#### Biological Data

<b>Biological description</b>	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).
-------------------------------	--

#### Solubility & Handling

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

#### Chemical Data

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