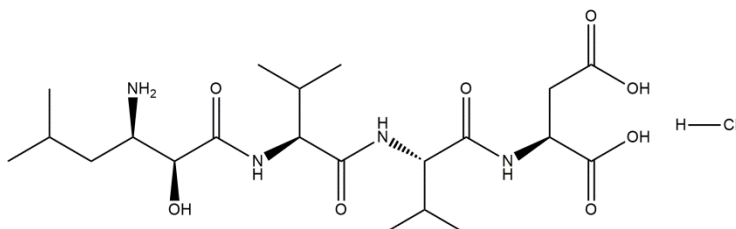


Amastatin hydrochloride

ALTERNATE NAMES: (2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S,3R)-3-amino-2-hydroxy-5-methylhexanoyl]amino]-3-methylbutanoyl]amino]-3-methylbutanoyl]amino]butanedioic acid, hydrochloride; N-[(2S,3R)-3-amino-2-hydroxy-5-methyl-1-oxohexyl]-L-valyl-L-valyl-L-aspartic acid, monohydrochloride

CATALOG #: B3085-1 1 mg
B3085-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₁H₃₉ClN₄O₈

MOLECULAR WEIGHT: 511

CAS NUMBER: 100938-10-1

APPEARANCE: White powder

PURITY: ≥ 95%

SOLUBILITY:
 ~1 mg/ml in ethanol
 ~10 mg/ml in DMF
 ~5 mg/ml in PBS, pH 7.2
 ~2 mg/ml in DMSO

DESCRIPTION: Amastatin is an inhibitor of aminopeptidase A and leucine aminopeptidase (IC₅₀ values of 0.54 µg/ml and 0.5 µg/ml). It does not show any significant inhibition of aminopeptidase B, trypsin, chymotrypsin, elastase, papain, pepsin or thermolysin. It is a competitive inhibitor of aminopeptidase N. Inhibitors of aminopeptidase N can be beneficial in inhibiting COVID-19.

STORAGE TEMPERATURE: -20°C. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

- Menrad, A., Speicher, D., Wacker, J. et al. Biochemical and functional characterization of aminopeptidase N expressed by human melanoma cells. *Cancer Res.* 53(6):1450-5 (1993).
- Aoyagi, T., Tobe, H., Kojima, F., et al. Amastatin, an inhibitor of aminopeptidase A, produced by actinomycetes. *J.Antibiot.(Tokyo)* 31(6), 636-638 (1978).

RELATED PRODUCTS:

Cathepsin H (active, human) (Cat. No. 1023)
 Linagliptin (Cat. No. 2240)
 Bestatin hydrochloride (Cat. No. 9630)
 Boceprevir (Cat. No. B2961)
 Diprotin A (Cat. No. 2191)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**