

Product Data Sheet

Product Name: Amastatin (hydrochloride)

Cat. No.: GC42777

Chemical Properties

Cas. No. 100938-10-1

SMILES CC(C)[C@H](NC([C@@H](NC([C@@H](O)[C@H](N)CC(C)C)=O)C(C)C)=O)C(N[C@@H](CC(O)=O)C(O)=O)=O.Cl

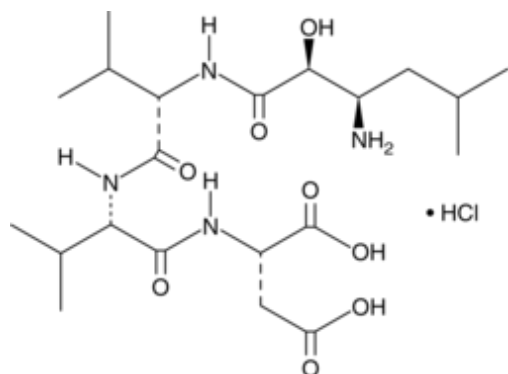
Formula $C_{21}H_{38}N_4O_8 \cdot HCl$ M.Wt 511

Solubility DMF: 10 mg/ml, DMSO: 2 mg/ml, Ethanol: 1 mg/ml, PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Amastatin is a slow, tight binding, competitive aminopeptidase (AP) inhibitor, first described as an inhibitor of human serum AP-A (glutamyl AP; $IC_{50} = 0.54 \mu g/ml$) but not of AP-B (arginine AP). It also inhibits AP-N (AP-M, alanyl AP; $K_i = 20-200 \text{ nM}$), leucyl-cystinyl AP ($K_i = 20-220 \text{ nM}$), and endoplasmic reticulum AP 1 ($K_i = 41.8 \mu M$). Amastatin is without effect on trypsin, papain, chymotrypsin, elastase, pepsin, or thermolysin.

Caution: Product has not been fully validated for medical applications. For research use only.

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