

Product Data Sheet

Product Name: Statine ((3S,4S)-Statine)

Cat. No.: GC32417

Chemical Properties

Cas. No. 49642-07-1

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

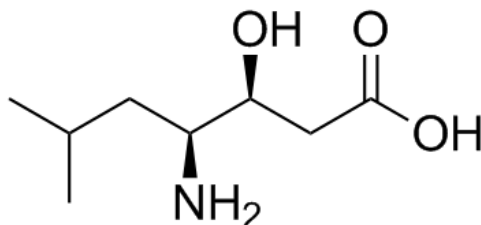
Formula $C_8H_{17}NO_3$ M.Wt 175.23

Solubility H_2O : ≥ 125 mg/mL (713.35 mM) Storage Store at $-20^\circ C$

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

Statine ((3S,4S)-Statine) is a gamma amino acid that occurs twice in the sequence of pepstatin [1]. Statine ((3S,4S)-Statine) mimics the tetrahedral transition state of pepsin and other acidic proteases [1]. Pepstatin is a protease inhibitor active against pepsin and other acidic proteases [2]. Pepstatin is a potent acetylase inhibitor that is a hexapeptide containing the unusual amino acid Statine ((3S,4S)-Statine) with the sequence Iva-Val-Val-Sta-Ala-Sta [3].

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

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References:

- [1]Marciniszyn Jr J, Hartsuck J A, Tang J. Mode of inhibition of acid proteases by pepstatin[J]. Journal of Biological Chemistry, 1976, 251(22): 7088-7094.
- [2]Kunimoto S, AOYAGI T, NISHIZAWA R, et al. Mechanism of inhibition of pepsin by pepstatin. II[J]. The Journal of Antibiotics, 1974, 27(6): 413-418.
- [3]Guegan R, Diaz J, Cazaubon C, et al. Pepstatin analogs as novel renin inhibitors[J]. Journal of medicinal chemistry, 1986, 29(7): 1152-1159.

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