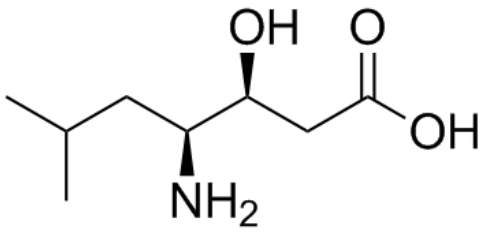
Product Data Sheet

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°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

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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