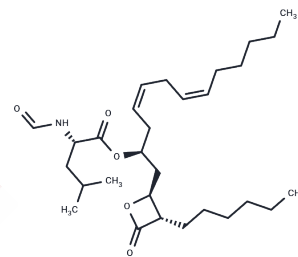


## Lipstatin

## Chemical Properties

CAS No. :	96829-59-3
Formula:	C <sub>29</sub> H <sub>49</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	491.7
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Lipstatin is a potent inhibitor of the pancreas lipase. It is reported to be useful in the treatment and/or prevention of obesity and related diseases.
Targets(IC50)	Others,Lipase

## Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0338 mL	10.1688 mL	20.3376 mL
5 mM	0.4068 mL	2.0338 mL	4.0675 mL
10 mM	0.2034 mL	1.0169 mL	2.0338 mL
50 mM	0.0407 mL	0.2034 mL	0.4068 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Zhu T, Wang L, Wang W, Hu Z, Yu M, Wang K, Cui Z. Enhanced production of lipstatin from *Streptomyces toxytricini* by optimizing fermentation conditions and medium. *J Gen Appl Microbiol*. 2014;60(3):106-11. PubMed PMID: 25008166.
- Bai T, Zhang D, Lin S, Long Q, Wang Y, Ou H, Kang Q, Deng Z, Liu W, Tao M. Operon for biosynthesis of lipstatin, the Beta-lactone inhibitor of human pancreatic lipase. *Appl Environ Microbiol*. 2014 Dec;80(24):7473-83. doi: 10.1128/AEM.01765-14. Epub 2014 Sep 19. PubMed PMID: 25239907; PubMed Central PMCID: PMC4249243.
- Kumar P, Dubey KK. Modulation of fatty acid metabolism and tricarboxylic acid cycle to enhance the lipstatin production through medium engineering in *Streptomyces toxytricini*. *Bioresour Technol*. 2016 Aug;213:64-68. doi: 10.1016/j.biortech.2016.01.133. Epub 2016 Feb 11. PubMed PMID: 26897471.
- Demirev AV, Khanal A, Sedai BR, Lim SK, Na MK, Nam DH. The role of acyl-coenzyme A carboxylase complex in lipstatin biosynthesis of *Streptomyces toxytricini*. *Appl Microbiol Biotechnol*. 2010 Jul;87(3):1129-39. doi: 10.1007/s00253-010-2587-2. Epub 2010 May 2. PubMed PMID: 20437235; PubMed Central PMCID: PMC2886142.

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