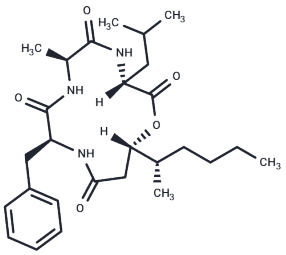
Data Sheet (Cat.No.T36226)

TargetMol

Beauveriolide I

Chemical Properties



CAS No. : 154491-55-1

Formula: C27H41N3O5

Molecular Weight: 487.63

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	Beauveriolide I is a cyclodepsipeptide that has been found inBeauveriaand an inhibitor of lipid droplet formation.1It inhibits lipid droplet formation when used at concentrations of 3 and 10 μM, as well as inhibits cholesterol synthesis (IC50= 0.78 μM), in primary mouse peritoneal macrophages.1,2Beauveriolide I also inhibits acyl-coenzyme A:cholesterol acyltransferase (ACAT) activity in mouse macrophage membranes (IC50= 6 μM).2
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0507 mL	10.2537 mL	20.5074 mL
5 mM	0.4101 mL	2.0507 mL	4.1015 mL
10 mM	0.2051 mL	1.0254 mL	2.0507 mL
50 mM	0.041 mL	0.2051 mL	0.4101 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

Namatame, I., Tomoda, H., Si, S., et al.Beauveriolides, specific inhibitors of lipid droplet formation in mouse macrophages, produced by Beauveria sp. FO-6979J. Antibiot. (Tokyo)52(1)1-6(1999)

Namatame, I., Tomoda, H., Ishibashi, S., et al.Antiatherogenic activity of fungal beauveriolides, inhibitors of lipid droplet accumulation in macrophagesProc. Nat. Acad. Sci. USA101(3)737-742(2004)

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