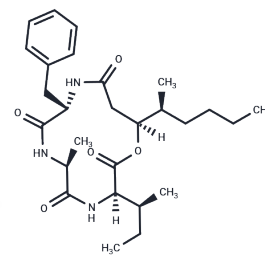


Beauveriolide III

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 221111-70-2 |
| Formula: | C ₂₇ H ₄₁ N ₃ O ₅ |
| Molecular Weight: | 487.63 |
| Storage: | Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|----------------------------|--|
| Description | Beauveriolide III, a cyclodepsipeptide found in Beauveria fungi, inhibits lipid droplet formation (at 3-10 μ M) and cholesterol synthesis (IC ₅₀ =0.41 μ M). This compound also suppresses acyl-coenzyme A:cholesterol acyltransferase (ACAT) activity (IC ₅₀ =5.5 μ M) and reduces atherosclerotic lesion size in Ldlr ^{-/-} and ApoE ^{-/-} mouse models (25-50 mg/kg). |
| Targets(IC ₅₀) | Beta Amyloid |

Solubility Information

| | |
|------------|--|
| Solubility | Methanol: Soluble, Sonication is recommended. DMSO: Soluble, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

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., et al. Antiatherogenic activity of fungal beauveriolides, inhibitors of lipid droplet accumulation in macrophages *Proc. Nat. Acad. Sci. USA*101(3)737-742(2004)

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