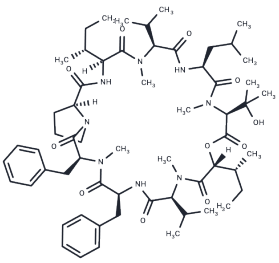
Data Sheet (Cat.No.T9267)

TargetMol

Aureobasidin A

Chemical Properties



CAS No. : 127785-64-2

Formula: C60H92N8O11

Molecular Weight: 1101.42

Storage: Keep away from direct sunlight
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	Aureobasidin A is a cyclic peptide and an antifungal antibiotic. Aureobasidin A is an inhibitor of the inositolphosphorylceramide synthase AUR1.
Targets(IC50)	Antibiotic,Parasite,Antifungal
In vitro	Ureobasidin A is a cyclicdepsipeptide antifungal produced by Aureobasidium pullulans with a strong fungicidal activity against a variety of fungi, including Candida[1].

Solubility Information

Solubility	DMSO: 245 mg/mL (222.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.82 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9079 mL	4.5396 mL	9.0792 mL
5 mM	0.1816 mL	0.9079 mL	1.8158 mL
10 mM	0.0908 mL	0.454 mL	0.9079 mL
50 mM	0.0182 mL	0.0908 mL	0.1816 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

Munusamy, Komathy , J. Vadivelu , and S. T. Tay . "A study on Candida biofilm growth characteristics and its susceptibility to aureobasidin A." Revista Iberoamericana De Micología (2018):S1130140617301158.