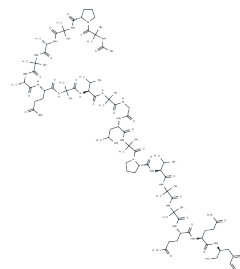


Alamethicin F50

Chemical Properties

CAS No. :	56165-93-6
Formula:	C92H151N23O24
Molecular Weight:	1963.32
Storage:	Keep away from moisture 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	Alamethicin F50 is a peptaibol isolated from Trichoderma. It is a polymer of 20 amino acids that includes modified and non-proteinogenic amino acids. Alamethicin F50 is a mixture of 13 different peptides, with the most abundant designated as alamethicin F50/5. Alamethicin F50 forms voltage-dependent ion channels in lipid membranes and acts as a lytic agent. It induces lysis of leukocytes (IC50 = 54 and 80 µM for rat mast cells and mouse spleen lymphocytes, respectively) and exhibits antibacterial activity against a panel of 8 mollicutes (MICs = 1.56-12.5 µM).
Targets(IC50)	Others, Antibacterial, Antibiotic, Antifungal

Solubility Information

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

	1mg	5mg	10mg
1 mM	0.5093 mL	2.5467 mL	5.0934 mL
5 mM	0.1019 mL	0.5093 mL	1.0187 mL
10 mM	0.0509 mL	0.2547 mL	0.5093 mL
50 mM	0.0102 mL	0.0509 mL	0.1019 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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