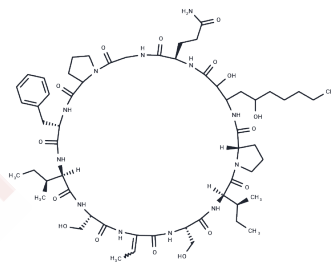


Muscotoxin A

Chemical Properties

CAS No. :	1653999-47-3
Formula:	C ₅₈ H ₉₀ N ₁₂ O ₁₆
Molecular Weight:	1211.426
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	Muscotoxin A, an ADC cytotoxin with lipopeptide properties, effectively permeabilizes mammalian cell membranes, ultimately inducing necrotic cell death.
Targets(IC50)	ADC Cytotoxin
In vitro	Muscotoxin A, at concentrations ranging from 0-13.2 μM over a 24-hour period, demonstrates cytotoxicity toward YAC-1, Sp/2, and HeLa cancer cell lines, with half-maximal lethal concentration (LC50) values between 9.9 and 13.2 μM. This compound induces cell death by damaging the membrane and facilitating the influx of calcium ions[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8255 mL	4.1274 mL	8.2547 mL
5 mM	0.1651 mL	0.8255 mL	1.6509 mL
10 mM	0.0825 mL	0.4127 mL	0.8255 mL
50 mM	0.0165 mL	0.0825 mL	0.1651 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

Petr Tomek, et al. Cytotoxic Lipopeptide Muscotoxin A, Isolated From Soil Cyanobacterium Desmonostoc Muscorum, Permeabilizes Phospholipid Membranes by Reducing Their Fluidity. Chem Res Toxicol. 2015 Feb 16;28 (2):216-24.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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