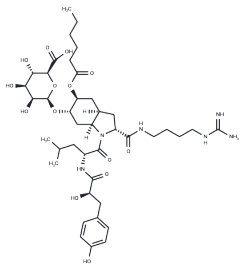
Data Sheet (Cat.No.T39077)

TargetMol

Aeruginosin 865

Chemical Properties



CAS No. : 1611990-01-2

Formula: C41H64N6O14

Molecular Weight: 864.991

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	Aeruginosin 865, a compound extracted from the terrestrial cyanobacterium Nostoc sp. Luke ová 30/93, represents the inaugural aeruginosin-type peptide to incorporate a fatty acid and a carbohydrate moiety. It functions by inhibiting the translocation of NF-kB to the nucleus, thereby exerting an anti-inflammatory effect.
Targets(IC50)	NF-κB,ADC Cytotoxin
In vitro	Aeruginosin 865, when pre-treated at concentrations ranging from 0.1 to 100 μg/mL, significantly inhibits IL-8 (EC 50 = 3.5 μg/mL) and ICAM-1 (EC 50 = 50.0 μg/mL) in a concentration-dependent manner in hTNF-α-stimulated HLMVECs, without compromising cell viability in HeLa and HepG2 cells even at much higher concentrations [1]. Furthermore, at concentrations of 100-200 μM, Aeruginosin 865 exhibits cytotoxicity towards Mouse fibrosarcoma cells, while demonstrating no cytotoxic effects on NIH/3T3 cells[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1561 mL	5.7804 mL	11.5608 mL
5 mM	0.2312 mL	1.1561 mL	2.3122 mL
10 mM	0.1156 mL	0.578 mL	1.1561 mL
50 mM	0.0231 mL	0.1156 mL	0.2312 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

Aleksandra Kapuścik, et al. Novel Aeruginosin-865 from Nostoc sp . as a potent anti-inflammatory agent. Chembiochem. 2013 Nov 25;14(17):2329-37.

Ivana Veselá, et al. Cytotoxic Effect of Aeruginosin-865, Resveratrol and Capsaicin on Mouse Fibroblasts and Cells Derived from Fallow Deer. Natural Product Communications, Volume: 13 issue: 2.

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