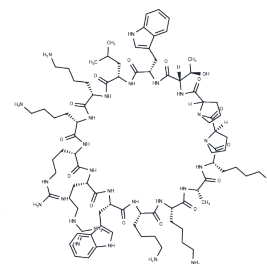


Cyclic L27-11

Chemical Properties

CAS No. :	1221423-80-8
Formula:	C87H141N27O15
Molecular Weight:	1805.22
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	Cyclic L27-11 is a cyclic peptide analog antibiotic that exhibits potent antimicrobial activity against specific bacteria, particularly <i>Pseudomonas</i> sp. It is highly effective against <i>Pseudomonas aeruginosa</i> , demonstrating nanomolar-level antibacterial activity. The mechanism of action for Cyclic L27-11 involves interfering with the function of the bacterial outer membrane protein LptD, inhibiting the normal transport of lipopolysaccharide (LPS). This inhibition leads to the accumulation of membrane-like substances within the bacterial cell, adversely affecting bacterial survival. Consequently, Cyclic L27-11 is a promising candidate for antimicrobial agent development.
Targets(IC50)	Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5539 mL	2.7697 mL	5.5395 mL
5 mM	0.1108 mL	0.5539 mL	1.1079 mL
10 mM	0.0554 mL	0.277 mL	0.5539 mL
50 mM	0.0111 mL	0.0554 mL	0.1108 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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