

C16G2

Chemical Properties

CAS No. :	2154327-48-5
Formula:	C190H310N58O42
Molecular Weight:	4078.93
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	C16G2 is a Specific Targeted Antimicrobial Peptide (STAMP) that selectively targets the cariogenic oral pathogen Streptococcus mutans. This compound operates by recognizing and disrupting the bacterial cell membrane, leading to small molecule leakage and the loss of membrane potential, which results in bacterial death. Unlike broad-spectrum antimicrobial peptides, C16G2 exhibits higher selectivity and efficacy against Streptococcus mutans.
Targets(IC50)	Antibacterial,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2452 mL	1.2258 mL	2.4516 mL
5 mM	0.049 mL	0.2452 mL	0.4903 mL
10 mM	0.0245 mL	0.1226 mL	0.2452 mL
50 mM	0.0049 mL	0.0245 mL	0.049 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.

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