

MDP1

## Chemical Properties

CAS No. :

Formula: C111H202N34O28

Molecular Weight: 2461

Keep away from moisture

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	MDP1, derived from Melittin, disrupts the membrane integrity of both Gram-positive and Gram-negative bacteria, leading to bacterial death through membrane damage. This compound exhibits potent antibacterial activity against multidrug-resistant (MDR) and reference strains of <i>S. aureus</i> , <i>E. coli</i> , and <i>P. aeruginosa</i> [1].
Targets(IC50)	Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4063 mL	2.0317 mL	4.0634 mL
5 mM	0.0813 mL	0.4063 mL	0.8127 mL
10 mM	0.0406 mL	0.2032 mL	0.4063 mL
50 mM	0.0081 mL	0.0406 mL	0.0813 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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