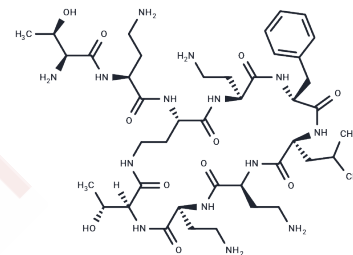


Polymyxin B nonapeptide

Chemical Properties

CAS No. :	86408-36-8
Formula:	C43H74N14O11
Molecular Weight:	963.13
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	Polymyxin B nonapeptide, a cationic cyclic peptide derived by enzymatic processing from the naturally occurring peptide polymyxin B, is able to increase the permeability of the outer membrane of Gram-negative bacteria toward hydrophobic antibiotics probably by binding to the bacterial lipopolysaccharide (LPS)
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	H2O: 100 mg/mL (103.83 mM), Sonication is recommended. DMSO: 16.67 mg/mL (17.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0383 mL	5.1914 mL	10.3828 mL
5 mM	0.2077 mL	1.0383 mL	2.0766 mL
10 mM	0.1038 mL	0.5191 mL	1.0383 mL
50 mM	0.0208 mL	0.1038 mL	0.2077 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

Tsubery H, et al. Structure-function studies of polymyxin B nonapeptide: implications to sensitization of gram-negative bacteria. J Med Chem. 2000 Aug 10;43(16):3085-92.

Cui R, Zhang J, Liu X, et al. Dronedarone Enhances the Antibacterial Activity of Polymyxin B and Inhibits the Quorum Sensing System by Interacting with LuxS. ACS Infectious Diseases. 2024

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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