

Polymyxin B Sulfate

Chemical Properties

CAS No. : 1405-20-5

Formula: C₅₆H₁₀₀N₁₆O₁₇S

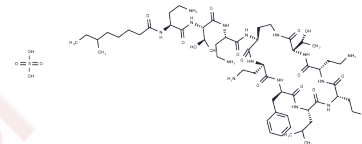
Molecular Weight: 1301.56

Keep away from moisture, Keep away from direct sunlight

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	Polymyxin B Sulfate (Poly-RX) is a mixture of polymyxins B1 and B2, obtained from <i>Bacillus polymyxa</i> strains. They are basic polypeptides of about eight amino acids and have cationic detergent action on cell membranes. Polymyxin B Sulfate (Poly-RX) is used for infections with gram-negative organisms, but may be neurotoxic and nephrotoxic.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 33.3 mg/mL (25.58 mM), Sonication is recommended. H ₂ O: 20 mg/mL (15.37 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	0.7683 mL	3.8415 mL	7.6831 mL
5 mM	0.1537 mL	0.7683 mL	1.5366 mL
10 mM	0.0768 mL	0.3842 mL	0.7683 mL
50 mM	0.0154 mL	0.0768 mL	0.1537 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

Severino P, et al. Colloids Surf B Biointerfaces. 2015 May 1;129:191-7.

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