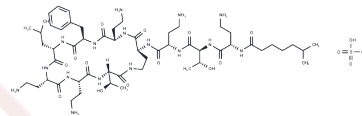


## Polymyxin B2 sulfate

## Chemical Properties

CAS No. :	108965-69-1
Formula:	C55H96N16O13.XH2SO4
Molecular Weight:	1189.50
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 B2, a significant component of polymyxin B, is an antibiotic cationic lipopeptide initially derived from <i>B. polymyxa</i> . This compound effectively inhibits <i>P. aeruginosa</i> , <i>A. baumannii</i> , <i>K. pneumoniae</i> , and <i>E. cloacae</i> strains, exhibiting minimum inhibitory concentrations (MICs) of 1-2, 0.5-1, 0.25-0.5, and 0.25-1 µg/ml, respectively. Notably, in a mouse model of <i>P. aeruginosa</i> bloodstream infection, administration of polymyxin B2 at a dosage of 4 mg/kg has been shown to decrease the number of colony-forming units (CFUs) in the blood.
Targets(IC50)	Others,Antibacterial,Antibiotic

## Solubility Information

Solubility	H2O: 50 mg/mL (42.03 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	0.8407 mL	4.2034 mL	8.4069 mL
5 mM	0.1681 mL	0.8407 mL	1.6814 mL
10 mM	0.0841 mL	0.4203 mL	0.8407 mL
50 mM	0.0168 mL	0.0841 mL	0.1681 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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