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DATASHEET

Polymyxin B Sulfate

Product overview

Name	Polymyxin B Sulfate
Cat No	HB0530
Description	Cationic antimicrobial peptide

Biological Data

Biological description	Cationic antimicrobial peptide. Mixture of polymyxin components such as B1 and B2. Displays high affinity for lipopolysaccharide (LPS) and causes LPS aggregation. Shows bactericidal antibiotic actions against gram-negative bacteria.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (50mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Aerosporin
Molecular Weight	1385.6
Chemical structure	
Molecular Formula	$C_{55}H_{96}N_{16}O_{13}.2H_2SO_4$
CAS Number	1405-20-5
PubChem identifier	0
SMILES	CC(C)CC1NC(=O)C(Cc2ccccc2)NC(=O)C(CCN)NC(=O)C(CCNC(=O)C(CCO)NC(=O)C(CCN)NC(=O)C(CCN)NC1=O)NC(=O)C(CCN)NC(=O)C(CCO)NC(=O)C(CCN)NC=O.O[S](O)(=O)=O

References

In vitro potency of various polymyxin B components.

Tam VH *et al* (2011) Antimicrob Agents Chemother 55(9)
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Enzymatic modification of lipid A by ArnT protects Bordetella bronchiseptica against cationic peptides and is required for transmission.

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Biophysical characterization of polymyxin B interaction with LPS aggregates and membrane model systems.

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