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DATASHEET

Daptomycin

Product overview

Name	Daptomycin
Cat No	HB4375
Alternative names	LY 146032
Description	Antibiotic. Protein, DNA and RNA inhibitor.

Biological Data

Biological description	Antibiotic. Shows potent anti-bacterial activity against most gram-positive bacteria. Disrupts the plasma membrane to induce rapid depolarization which inhibits protein, DNA and RNA synthesis.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100 mM) and water (20 mM)
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	N-(1-Oxodecyl)-L-tryptophyl-D-asparaginy-L-α-aspartyl-L-threonylglycyl-L-ornithinyl-L-α-aspartyl-D-alanyl-L-α-aspartylglycyl-D-seryl-(3R)-3-methyl-L-α-glutamyl-α,2-diamino-?-oxo-benzene butanoic acid (13-4) lactone
Molecular Weight	1620.67
Chemical structure	
Molecular Formula	C ₇₂ H ₁₀₁ N ₁₇ O ₂₆
CAS Number	103060-53-3
PubChem identifier	16129629
SMILES	CCCCCCCCC(=O)N[C@@H](CC1=CNC2=CC=CC=C21)C(=O)N[C@@H](CC(=O)N)C(=O)N[C@@H](CC(=O)O)C(=O)NC3C(OC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@H](NC(=O)CNC(=O)[C@@H](NC(=O)[C@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)CNC3=O)CCCN)CC(=O)O)C)CC(=O)O)C(=O)C4=CC=CC=C4N)C
InChiKey	DOAKLVKFURWEDJ-RWDRXURGSA-N
Appearance	Yellow