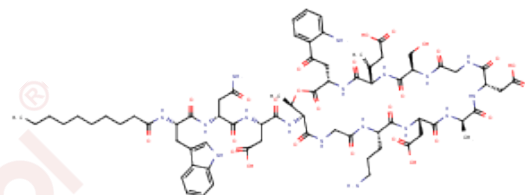


Daptomycin

Chemical Properties

CAS No. :	103060-53-3
Formula:	C ₇₂ H ₁₀₁ N ₁₇ O ₂₆
Molecular Weight:	1620.67
Appearance:	no data available
Storage:	keep away from moisture
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Daptomycin (LY146032) is a cyclic lipopeptide antibiotic that inhibits GRAM-POSITIVE BACTERIA.
Targets(IC50)	DNA/RNA Synthesis,Antibacterial,Antibiotic
In vivo	Administering daptomycin at a dosage of 10 mg/kg twice daily significantly reduced the amount of organisms per kidney compared to infected untreated controls within 48 hours of treatment initiation. Although a 20 mg/kg dose administered once daily is less effective, it still significantly lowers colony counts after 4 days of therapy, with its efficacy being comparable to that of vancomycin or vancomycin-gentamicin administered twice daily[4].

Solubility Information

Solubility	H ₂ O: 32.4 mg/mL (20 mM), DMSO: 162.1 mg/mL (100 mM), $\leq 1\text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.617 mL	3.0851 mL	6.1703 mL
5 mM	0.1234 mL	0.617 mL	1.2341 mL
10 mM	0.0617 mL	0.3085 mL	0.617 mL
50 mM	0.0123 mL	0.0617 mL	0.1234 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.

Reference

Zhou Y, Liu M J, Liao X Y, et al.New Attempts to Inhibit Methicillin-Resistant Staphylococcus aureus Biofilm? A Combination of Daptomycin and Azithromycin.Infection and Drug Resistance.2023: 7029-7040.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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