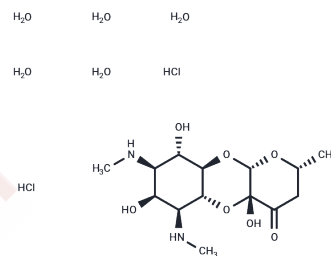


Spectinomycin dihydrochloride pentahydrate

Chemical Properties

CAS No. : 22189-32-8
 Formula: $C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$
 Molecular Weight: 495.35
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Spectinomycin dihydrochloride pentahydrate (Spectogard) is an antibiotic produced by <i>Streptomyces spectabilis</i> . It is active against gram-negative bacteria and used for the treatment of gonorrhea.
Targets(IC50)	ribosome,Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 27.5 mg/mL (55.52 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	2.0188 mL	10.0939 mL	20.1877 mL
5 mM	0.4038 mL	2.0188 mL	4.0375 mL
10 mM	0.2019 mL	1.0094 mL	2.0188 mL
50 mM	0.0404 mL	0.2019 mL	0.4038 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

Gordeev VK, et al. Genetika. 1983, 19(2):217-20.

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