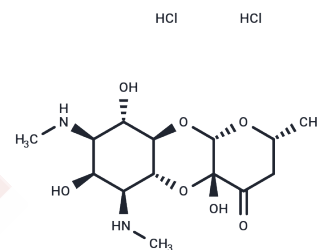


Spectinomycin dihydrochloride

Chemical Properties

CAS No. :	21736-83-4
Formula:	C ₁₄ H ₂₆ Cl ₂ N ₂ O ₇
Molecular Weight:	405.271
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Spectinomycin dihydrochloride (Actinospectacin) 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	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 74 mg/mL (182.59 mM), Sonication is recommended. DMSO: 242.5 mg/mL (598.37 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	2.4675 mL	12.3375 mL	24.6749 mL
5 mM	0.4935 mL	2.4675 mL	4.935 mL
10 mM	0.2467 mL	1.2337 mL	2.4675 mL
50 mM	0.0493 mL	0.2467 mL	0.4935 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.

Reference

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

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