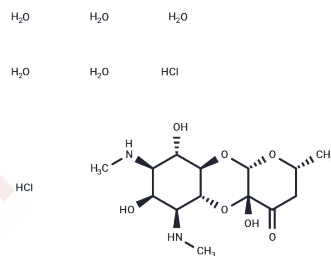


## Spectinomycin dihydrochloride pentahydrate

### Chemical Properties

CAS No. : 22189-32-8  
 Formula: C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub>·2HCl·5H<sub>2</sub>O  
 Molecular Weight: 495.35  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



### 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: 257.5 mg/mL (519.83 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.

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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