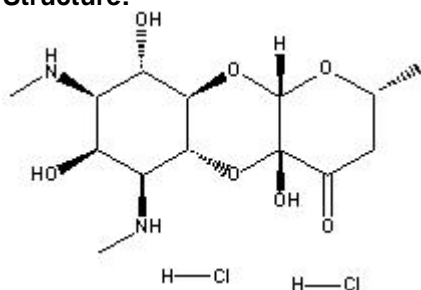


TECHNICAL INFORMATION

Catalog Number: 152067, 194540
Spectinomycin Dihydrochloride

Structure:



Molecular Formula: $C_{14}H_{24}N_2O_7 \cdot 2HCl$

Molecular Weight: 495.36

CAS # 22189-32-8

Synonyms: U-18409AE; Actinospectacin, M141

Source: Streptomyces sp.

Physical Appearance: White to pale buff crystalline powder

Description: Aminocyclitol antibiotic active against gram-negative bacteria. In clinical use for gonorrhoea. ¹ Spectinomycin binds to the 30S subunit of bacterial ribosomes and suppresses protein synthesis. ²

Solubility: Soluble in water, methanol, propyleneglycol; very soluble benzene, chloroform, ethanol and acetone. Store solutions aliquoted at -20°C for up to 3 months.

References:

- Karney, W.W., et al., *N. Engl. J. Med.*, v. **296**, 889 (1977)
- Brogden, R.N. and Avery, G.S., *Drugs* v. **3**, 314 (1972)