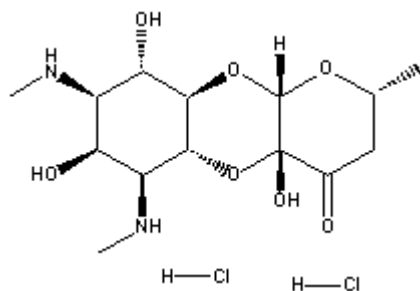


Catalog Number: 152067, 194540

Spectinomycin Dihydrochloride

Structure:



Molecular Formula: $\text{C}_{14}\text{H}_{24}\text{N}_2\text{O}_7 \cdot 2\text{HCl}$

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 gonorrhea. 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:

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