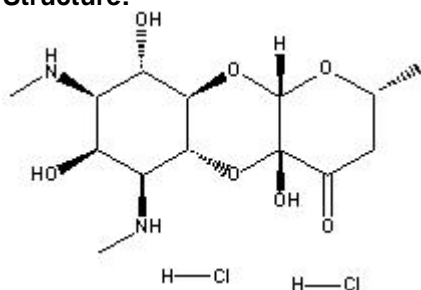


## TECHNICAL INFORMATION

Catalog Number: 152067, 194540  
**Spectinomycin Dihydrochloride**

**Structure:**



**Molecular Formula:** C<sub>14</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub> · 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. <sup>1</sup> Spectinomycin binds to the 30S subunit of bacterial ribosomes and suppresses protein synthesis. <sup>2</sup>

**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)