

Spectinomycin (dihydrochloride)

Catalog No: tcsc2544



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

21736-83-4

Formula:

$C_{14}H_{26}Cl_2N_2O_7$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 100 mg/mL (246.75 mM)

Observed Molecular Weight:

405.27

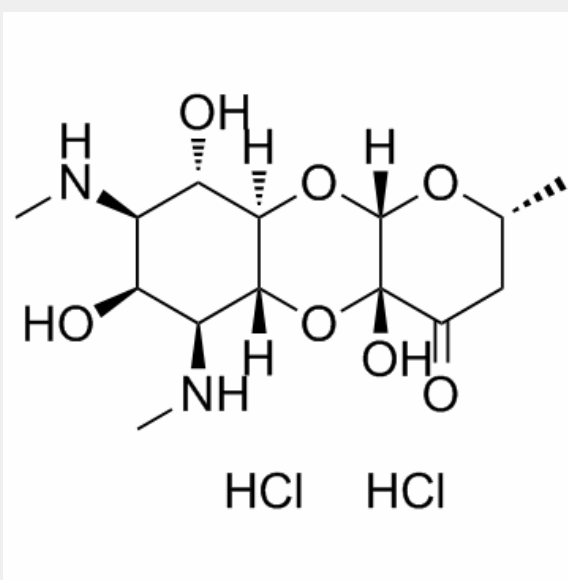
Product Description

Spectinomycin Dihydrochloride is a new parenteral antibiotic prepared from *Streptomyces spectabilis*.

Target: Antibacterial

Spectinomycin is an antibiotic produced by *Streptomyces spectabilis*. It is active against gram-negative bacteria and used for the treatment of gonorrhea. Spectinomycin binds to the 30S subunit of the bacterial ribosome and interrupts protein synthesis. One form

of resistance has emerged in the 16S ribosomal RNA in *Pasteurella multocida* [1]. It is given by injection to treat gonorrhea, especially in patients who are allergic to penicillins. A resistance-conferring gene for spectinomycin can also be used as a selection marker in bacteria for molecular cloning purposes. Furthermore, Spectinomycin is used as a selection agent for transformed plant cells that contain the selectable marker gene Spcr [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!