

Spectinomycin dihydrochloride pentahydrate

Cat. No. ANT-505

Lot. No. (See product label)

Product Name

Spectinomycin dihydrochloride pentahydrate

Product Overview

Spectinomycin is an aminocyclitol antibiotic derived from *Streptomyces spectabilis*. Spectinomycin can be used as a selection marker in plant related transformation systems for plant cells containing the marker gene Spcr. This product is a synthetic (inorganic) product. It is suitable for cell culture. CAS NO.22189-32-8. Endotoxin tested.

Description

Mode of Action: Spectinomycin acts by inhibiting protein synthesis and elongation by binding to the bacterial 30S ribosomal subunit and interfering with peptidyl tRNA translocation.

Form

Powder

Molecular Mass

495.35

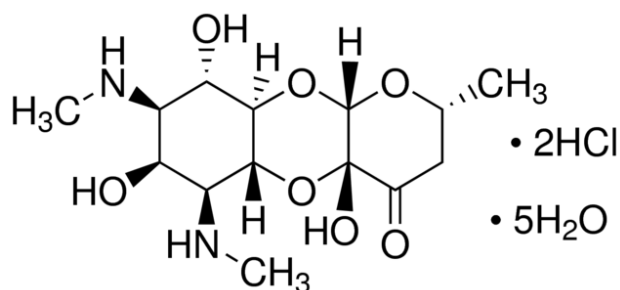
Purity

≥98.0%

Notes

Solutions can be stored at 2-8 centigrade for several weeks or at -20 centigrade for more extended periods.

Figure 1



Solubility

50 mg soluble in 1mL of water.

Molecular Formula

C₁₄H₂₄N₂O₇ · 2HCl · 5H₂O.

Storage

Store at 2-8 centigrade.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY