

PRODUCT: Spectinomycin dihydrochloride pentahydrate

ALTERNATE NAME: Trobicin; Spectogard; Spectinomycin hydrochloride

CATALOG #: 9524-1G, 5G

AMOUNT: 1 g, 5 g

STRUCTURE:



MOLECULAR FORMULA: $C_{14}H_{24}N_2O_7 \cdot 2HCl \cdot 5H_2O$

MOLECULAR WEIGHT: 495.35

CAS NUMBER: 22189-32-8

APPEARANCE: White to off-white solid

SOLUBILITY: H_2O (50 mg/ml)

POTENCY: $\geq 600 \mu g/mg$

STORAGE: Store at $-20^\circ C$. Protect from air and moisture

DESCRIPTION: Spectinomycin is an aminocyclitol antibiotic that inhibits protein synthesis and elongation by binding to the bacterial 30S ribosomal subunit and interfering with peptidyl tRNA translocation. It has been shown to have a wide variety of uses, including treating acute gonorrheal urethritis and cervicitis, to mark cell layers to monitor cell fate during leaf development, as a selection marker in plant related transformation systems for plant cells containing the marker gene *Spcr*, etc.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Amphotericin B (Cat. No. 2497-250, 1G, 5G)
 Ampicillin trihydrate (Cat. No. 2483-1 G, 5G, 25 G)
 Ampicillin sodium (Cat. No. 2484-1G, 5G, 25G)
 EZSolution™ Ampicillin sodium (Cat. No. 2499-10)
 Betulinic Acid (Cat. No. 1552-25)
 Bexarotene (Cat. No. 1575-5, 50)
 Blastidicin S, Hydrochloride (Cat. No. 1859-25,100)
 Capecitabine (Cat. No. 1741-100, 1000)
 Carboplatin (Cat. No. 1553-100)
 Chloramphenicol (Cat. No. 2486-25G, 100G, 500G)
 Cisplatin (Cat. No. 1550-100,1000)
 Cycloheximide (Cat. No. 1041-1G, 5G)
 Cycloheximide (100 mM) (Cat. No. 1041-1)
 Daunorubicin.HCl (1524-10,50,500)
 Doxorubicin HCl (Cat. No. 1527-5)
 Fludarabine Phosphate (Cat. No. 1763-10, 50)
 G-418 Sulfate (Cat. No. 1557-100, 5G, 25G)
 Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)
 Genistein (Cat. No. 1533-10)
 Nedaplatin (Cat. No. 1576-5)
 Oxaliplatin (Cat. No. 1577-25)
 Paclitaxel (Cat. No. 1567-25)
 Penicillin G sodium (Cat. No. 2503-100, 500)
 Penicillin G potassium (Cat. No. 2504-25, 100)
 Polymyxin B Sulfate (Cat. No. 2496-10, 50, 100)
 Puromycin DiHydrochloride (Cat. No. 1860-25, 100, 250, 500,1000)
 EZSolution™ Puromycin Dihydrochloride (Cat. No. 1861-100)
 Streptozocin (Cat. No. 1930-100, 500, 1000)
 Tamoxifen Citrate (Cat. No. 1551-1000)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**