

PRODUCT: Thiostrepton**ALTERNATE NAME:** Alaninamide, Bryamycin, Thiactin**CATALOG #:** 9677-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₇₂H₈₅N₁₉O₁₈S₅**MOLECULAR WEIGHT:** 1664.89**CAS NUMBER:** 1393-48-2**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO (~ 15 mg/ml)**ASSAY:** ≥900 u/mg**STORAGE:** Store at -20°C. Protect from air and moisture

DESCRIPTION: Thiostrepton is a large cyclic antibiotic commonly used in topical antibiotic ointments. It inhibits bacterial protein synthesis. It blocks translation by interfering with elongation factors (EF) involved in ribosomal GTPase activity. Antitumor agent; induces cell cycle arrest and apoptosis in breast cancer cells via downregulation of FOXM1 expression.

REFERENCES: Gonzalez, R.L. Jr., *et al.* (2007). *RNA* **13**, 2091-2097.**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