

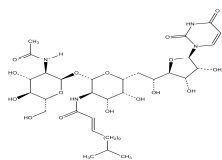
**PRODUCT: Tunicamycin**

**ALTERNATE NAME:** Tunicamycin from *Streptomyces* sp.

**CATALOG #:** 2802-5, 25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>38</sub>H<sub>62</sub>N<sub>4</sub>O<sub>16</sub>

**MOLECULAR WEIGHT:** 830.93

**CAS NUMBER:** 11089-65-9

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (~40 mg/ml) or EtOH (~5 mg/ml, warm)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C. Protect from light and moisture

**DESCRIPTION:**

From *Streptomyces lysosuperificus*. Provided as a mixture of tunicamycin A (C14), B (C15), C (C16) and D (C17) homologs in the fatty acid chain. Potent inhibitor of GlcNAc phosphotransferase which thereby inhibits glycoprotein biosynthesis. Causes endoplasmic reticulum stress-induced autophagy and unfolded protein response. Arrests cell cycle in late G1.

**REFERENCE:** Ding, W.X., et al. (2007). *J. Biol. Chem.* **282**, 4702-4710.

**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)
- Blasticidin 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)
- Daptomycin (Cat. No. 2582-10, 50)
- 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)
- Hygromycin B (Cat. No. 2589-100, 500, 1000)
- 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**