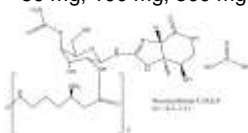


**PRODUCT: Nourseothrcin sulfate****ALTERNATE NAME:** Streptothricin sulfate; clonNAT; NTC**CATALOG #:** 2882-50, 100, 500, 1000**AMOUNT:** 50 mg, 100 mg, 500 mg, 1 g**STRUCTURE:****MOLECULAR FORMULA:**  $C_{31}H_{58}N_{12}O_{10} \cdot C_{19}H_{34}N_8O_8 \cdot H_2SO_4$ **MOLECULAR WEIGHT:** 1359.47**CAS NUMBER:** 96736-11-7**APPEARANCE:** Off-white solid**SOLUBILITY:** H<sub>2</sub>O (100 mg/ml)**PURITY:** ≥85%**STORAGE:** Store at -20 °C. Protect from air and moisture

**DESCRIPTION:** Nourseothricin is group of a broad-spectrum antibiotic produced by *Streptomyces* variants; inhibits protein synthesis by inducing miscoding. Streptothricin antibiotic Nourseothricin (NTC) is used for a broad spectrum of viruses, bacteria and other unicellular or complex organisms. Preferred selection antibiotic for genetically modified Gram-positive and Gram-negative bacteria, yeast, filamentous fungi, protozoa, plants and many more. Selection of recombinant strains is based on inactivation of NTC by monoacetylation of β-amino group of the β-lysine by Nourseothricin N-acetyltransferase, the product of the sat1 gene.

**REFERENCES:** Kochupurukkal, B.S., and Iglehart, J.D. (2013). *PLoS One* **8**, 1-4.

**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)  
 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**