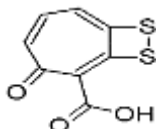


**PRODUCT: Tropodithietic Acid****ALTERNATE NAME:** 3-Oxo-8,9-dithiabicyclo[5.2.0]nona-1,4,6-triene-2-carboxylic acid**CATALOG NUMBER:** B1867-1**AMOUNT:** 1 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>8</sub>H<sub>4</sub>O<sub>3</sub>S<sub>2</sub>**MOLECULAR WEIGHT:** 212.3**CAS NUMBER:** 750590-18-2**APPEARANCE:** Orange solid**SOLUBILITY:** DMSO (~ 5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light

**DESCRIPTION:** Tropodithietic acid is a broad spectrum tropolone antibiotic with activity against both Gram-negative and Gram-positive bacteria. Displays cytotoxic effects on mammalian cell lines (neuronal N2a cells and OLN-93 cells as model systems for nerve cells and glia) acting via disruption of mitochondrial membrane potential, activation of ERK1/2 and induction of HSP32/HO-1 (considered as a sensor of oxidative stress). A broad-spectrum antibiotic agent produced by marine bacteria which does not appear to induce resistance after long-term exposure.

**REFERENCES:** Wilson, M.Z., *et al.* (2016). *Proc. Natl. Acad. Sci USA* **113**, 1630-1635.

**HANDLING:** Do not take internally. Wear gloves and mask when handling**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)  
 Cefotaxime Sodium, USP (Cat. No. B1510-1G, 5G, 25G)  
 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)  
 Nystatin, USP Grade (Cat. No. B1509-1G, 5G, 25G)  
 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)  
 Phleomycin (Cat. No. 2724-5,25)  
 EZSolution™ Phleomycin (Cat. No. B1531-1,5)  
 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)  
 Radicol (Cat. No. B1533-1,5)  
 Streptozocin (Cat. No. 1930-100, 500, 1000)  
 Tamoxifen Citrate (Cat. No. 1551-1000)  
 Timentin (Cat. No. B1508-1G, 5G, 25G)  
 Vancomycin Hydrochloride (Cat. No. B1507-250, 1G, 5G)

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