

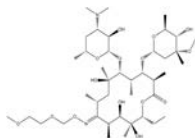
**PRODUCT: Roxithromycin**

**ALTERNATE NAME:** (3R,4S,5S,6R,7R,9R,10E,11S,12R,13S,14R)-6-[(2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-14-ethyl-7,12,13-trihydroxy-4-[(2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyloxan-2-yl]oxy-10-(2-methoxyethoxymethoxyimino)-3,5,7,9,11,13-hexamethyl-oxacyclotetradecan-2-one; Rulide; Surlid; Rotramin

**CATALOG #:** 9621-1G, 5G

**AMOUNT:** 1 g, 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>41</sub>H<sub>76</sub>N<sub>2</sub>O<sub>15</sub>

**MOLECULAR WEIGHT:** 837.05

**CAS NUMBER:** 80214-83-1

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO or EtOH

**PURITY:** ≥95% by HPLC

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

**DESCRIPTION:** Roxithromycin is a semi-synthetic, macrolide antibiotic, derived from erythromycin A. It acts as a bacteriostatic drug at low concentrations and a bactericidal drug at high concentrations. It binds to the 50S subunit of the 70S ribosome, which causes the reversible inhibition of RNA-dependent bacterial protein synthesis.

**REFERENCE:** Wang, P., *et al.* (2005). *J. Pharm. Biomed. Anal.* **39**, 618-623.

**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 USE ONLY! Not to be used in humans