

**PRODUCT: Solithromycin****ALTERNATE NAME:**

(3aS,4R,7R,9R,10R,11R,13R,15S,15aR)-1-(4-(4-(3-aminophenyl)-1H-1,2,3-triazol-1-yl)butyl)-10-(((2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-4-ethyl-7-fluoro-11-methoxy-3a,7,9,11,13,15-hexamethyloctahydro-1H-[1]oxacyclotetradecino[4,3-d]oxazole-2,6,8,14(7H,9H)-tetraone; CEM101

**CATALOG #:**

B1222-5,25

**AMOUNT:**

5 mg, 25 mg

**STRUCTURE:****MOLECULAR FORMULA:**C<sub>43</sub>H<sub>65</sub>N<sub>6</sub>O<sub>10</sub>**MOLECULAR WEIGHT:**

845.01

**CAS NUMBER:**

760981-83-7

**APPEARANCE:**

White to off-white solid

**SOLUBILITY:**

DMSO

**PURITY:**

≥98% by HPLC

**STORAGE:**

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

**DESCRIPTION:**

Solithromycin (CEM-101) is a "fourth-generation" macrolide antibiotic, that has three binding sites and is acid stable. The three binding sites confer activity against bacteria resistant to the older macrolides and ketolides. Solithromycin displays excellent in vitro activity against a broad spectrum of Gram-positive respiratory tract pathogens, including macrolide-resistant strains.

**REFERENCES:**

Keelan, J.A., *et al.* (2016). *Front. Immunol. pr* 1;7:111. doi: 10.3389/fimmu.2016.00111. eCollection 2016.

**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)  
 Solithromycin (Cat. No. B1222-5,25)  
 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**