

Product Name : Erythromycin

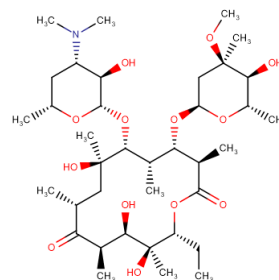
Synonyms : NSC 55929

Cat No. : M10494

CAS Number : 114-07-8

Molecular Formula : C37H67NO13

Formula Weight : 733.93



Chemical Name : (3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-6-(((2S,3R,4S,6R)-4-(dimethylamino)-3-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-14-ethyl-7,12,13-trihydroxy-4-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-3,5,7,9,11,13-hexamethoxyacyclotetradecane-2,10-dione

Description : Erythromycin, an oral macrolide antibiotic produced by *Streptomyces erythreus*, reversibly binds to the 50S ribosome of bacteria, and inhibits protein synthesis.

Pathway : GPCR/G Protein

Target : Antibacterial

Receptor : 23S rRNA; 50S ribosome

Solubility : Ethanol: 147 mg/mL (200.29 mM); Water: 3 mg/mL (4.08 mM); DMSO: 147 mg/mL (200.29 mM)

SMILES : C[C@H]([C@@H]([C@H](C[C@@H]([C@@]([C@H](O)[C@@H](C)C1=O)(CO)CC)=O)C)[C@H]2[C@]([C@@H](O)[C@H](C)O2)(OC)C)[C@H]([C@](C)(O)C[C@H]1C)O[C@H](O[C@@H](C[C@@H]3N(C)C)C)[C@H]3O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Moazed D, Noller HF. Biochimie. 1987 Aug;69(8):879-84.