

Product Name : Azithromycin

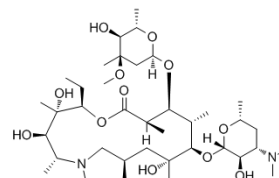
Synonyms : CP 62993

Cat No. : M16114

CAS Number : 83905-01-5

Molecular Formula : C₃₈H₇₂N₂O₁₂

Formula Weight : 748.98



Chemical Name : 1-Oxa-6-azacyclopentadecan-15-one, 13-[(2,6-dideoxy-3-C-methyl-3-O-methyl-α-L-ribo-hexopyranosyl)oxy]-2-ethyl-3,4,10-trihydroxy-3,5,6,8,10,12,14-heptamethyl-11-[[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xylo-hexopyranosyl]oxy]-, (2R,3S,4R,5R,8R,10R,11R,12S,13

Description : A macrolide antibiotic used for the treatment of a number of bacterial infections; also attenuates myofibroblast differentiation and lung fibrosis development through proteasomal degradation of NOX4; also blocks autophagy by preventing lysosomal acidification. Bacterial Infection Approved

Pathway : GPCR/G Protein

Target : Antibacterial

Receptor : proteinsynthesis

Solubility : 10 mM in DMSO

SMILES : CC[C@H]1[C@@]([C@@H]([C@H](N[C@@H](C[C@@]([C@@H]([C@H]([C@@H]([C@H](C(=O)O1)C)O[C@H]2[C@@]([C@H]([C@@H](O2)C)O)(C)OC)C)[C@H]3[C@@H]([C@H](C[C@H](O3)C)N(C)C)O)(C)O)C)C)O(C)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tsubouchi K, et al. Autophagy. 2017 Jun 14;1-15. | 2. Moriya S, et al. Int J Oncol. 2013 May;42(5):1541-50. | 3. Renna M, et al. J Clin Invest. 2011 Sep;121(9):3554-63.