

Product Information

Metabolism inhibitor, Clarithromycin, Purity $\geq 98\%$

Cat. No.: X24-08-YM358

Size: 100 mg; 200 mg; 500 mg; 1000 mg

MDL: MFCD00865140

CAS Number: 81103-11-9

Compound CID: 84029

Synonym: 81103-11-9; A-56268; TE-03; Crixan; Claritt; Clarac; Biaxin; Klaricid; Klacid; Klaram; Klabax; Claripen; Clarem; Claridar; Fromilid; Clacid; Clacee; Vikrol; Infex; Clariwin; Resclar; Ranbaxy; Clarihexal;

(3*R*,4*S*,5*S*,6*R*,7*R*,9*R*,11*R*,12*R*,13*S*,14*R*)-6-[(2*S*,3*R*,4*S*,6*R*

)-

4-(

Dimet

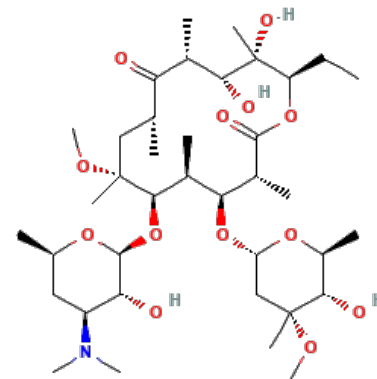
hylamino)-3

-hydroxy-6-methyloxan

-2-yl]oxy-14-ethyl-12,13-dihydroxy-4-[(2*R*,4*R*,5*S*,6*S*

)-5-hydroxy-4-methoxy-4,6-dimethyloxan-2-yl]oxy-7-methoxy-3,5,7,9,11,13-hexameth

yl-oxacyclotetradecane-2,10-dione



This product is for research use only and is not intended for diagnostic use.

Product Information

Description Clarithromycin, soluble in warmed DMSO and insoluble in water and ethanol, is an effective cell metabolism inhibitor, that has the ability to prevent the pathway of metabolism by inhibiting cytochrome P450.

Molecular Weight 748

Molecular Formula C₃₈H₆₉NO₁₃

IUPAC Name (3*R*,4*S*,5*S*,6*R*,7*R*,9*R*,11*R*,12*R*,13*S*,14*R*)-6-[(2*S*,3*R*,4*S*,6*R*)-4-(Dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-14-ethyl-12,13-dihydroxy-4-[(2*R*,4*R*,5*S*,6*S*)-5-hydroxy-4-methoxy-4,6-dimethyloxan-2-yl]oxy-7-methoxy-3,5,7,9,11,13-hexamethyl-oxacyclotetradecane-2,10-dione



InChI	InChI=1S/C38H69NO13/c1-15-26-38(10,45)31(42)21(4)28(40)19(2)17-37(9,47-14)33(52-35-29(41)25(39(11)12)16-20(3)48-35)22(5)30(23(6)34(44)50-26)51-27-18-36(8,46-13)32(43)24(7)49-27/h19-27,29-33,35,41-43,45H,15-18H2,1-14H3/t19-,20-,21+,22+,23-,24+,25+,26-,27+,29-,30+,31-,32+,33-,35+,36-,37-,38-/m1/s1
Form	Lyophilized powder
Purity	≥98%
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	<i>In vitro</i> : DMSO (warmed): 25 mg/mL (33.42 mM); Water: insoluble; Ethanol: insoluble
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Clarithromycin is a metabolism inhibitor that plays a key role in infections caused by bacteria, including respiratory infections, skin infections, and Helicobacter pylori infections.
Storage	Store at -20°C, and keep desiccated.
