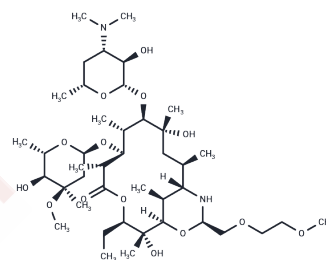


Dirithromycin

Chemical Properties

CAS No. :	62013-04-1
Formula:	C ₄₂ H ₇₈ N ₂ O ₁₄
Molecular Weight:	835.07
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dirithromycin (LY237216) is a macrolide glycopeptide antibiotic. It is used to treat many different types of bacterial infections, such as bronchitis, pneumonia, tonsillitis, and even skin infections.
Targets(IC50)	ribosome,Antibacterial,Antibiotic
In vivo	At therapeutic concentrations, Dirithromycin enhances the production of IL1 β in cells stimulated by lipopolysaccharides, with increases of +37% and +28% at 1 μ g/mL. At supra-therapeutic concentrations, Dirithromycin inhibits IL1 β through the inhibition of protein kinase C; the concentration of Dirithromycin when 50% inhibition is achieved is 378 mg/mL, while for Spiramycin it is 234 mg/mL.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 2.09 mg/mL (2.5 mM),Sonication is recommended. Ethanol: 93 mg/mL (111.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1975 mL	5.9875 mL	11.975 mL
5 mM	0.2395 mL	1.1975 mL	2.395 mL
10 mM	0.1198 mL	0.5988 mL	1.1975 mL
50 mM	0.024 mL	0.1198 mL	0.2395 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Moutard I, et al. Therapie, 1999, 54(5), 607-612.

Arda B, et al. Int J Antimicrob Agents, 2004, 23(2), 204-207.

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