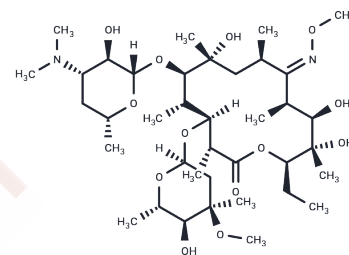


Lexithromycin

Chemical Properties

CAS No. :	53066-26-5
Formula:	C ₃₈ H ₇₀ N ₂ O ₁₃
Molecular Weight:	762.97
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	Lexithromycin is an erythromycin A derivative. It has antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Lexithromycin shows a minimal inhibitory concentration of 0.06 µg/mL against <i>S. pyogenes</i> CN10A and <i>Streptococcus</i> sp. The minimal inhibitory concentration of 0.25 µg/mL against <i>Staphylococcus aureus</i> Oxford, 0.5 µg/mL against <i>S. aureus</i> Russell and <i>S. aureus</i> T2, 4 µg/mL against <i>S. pyogenes</i> CN10A and <i>Haemophilus influenzae</i> Wy 21 [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (65.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (4.33 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3107 mL	6.5533 mL	13.1067 mL
5 mM	0.2621 mL	1.3107 mL	2.6213 mL
10 mM	0.1311 mL	0.6553 mL	1.3107 mL
50 mM	0.0262 mL	0.1311 mL	0.2621 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

Hunt E, et al. Erythromycin A 11,12-methylene acetal. J Antibiot (Tokyo). 1988 Nov;41(11):1644-8.

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