Lexithromycin

Cat. No.:	HY-105932	Ŧ
CAS No.:	53066-26-5	H
Molecular Formula:	$C_{38}H_{70}N_{2}O_{13}$	
Molecular Weight:	762.97	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	~~~он

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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		
	Please refer to the sc	Please refer to the solubility information to select the appropriate solvent.					
In Vivo		1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (6.55 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.25 mg/mL (4.26 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (4.26 mM); Clear solution						

BIOLOGICAL ACTIVITY			
Description	Lexithromycin is an erythromycin A derivative, with antibacterial activity.		
IC ₅₀ & Target	Bacterial ^[1]		
In Vitro	Lexithromycin is an erythromycin A derivative, with antibacterial activity. Lexithromycin shows minimal inhibitory concentration (MIC) of 0.06 μg/mL against S. pyogenes CN10A and Streptococcus sp. 64/848C, 0.25 μg/mL against Staphylococcus aureus Oxford, 0.5 μg/mL against S. aureus Russell and S. aureus T2, 4 μg/mL against S. pyogenes CN10A and Haemophilus influenzae Wy 21 ^[1] .		

Proteins

Product Data Sheet

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• J Chem Inf Model. 2021 Mar 18.

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REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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