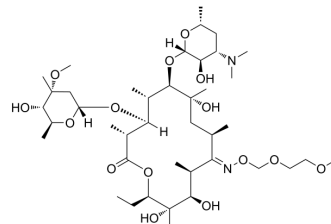


Roxithromycin

Cat. No.:	HY-B0435		
CAS No.:	80214-83-1		
Molecular Formula:	C ₄₁ H ₇₆ N ₂ O ₁₅		
Molecular Weight:	837.05		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (119.47 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.1947 mL	5.9734 mL	11.9467 mL
	5 mM		0.2389 mL	1.1947 mL	2.3893 mL
	10 mM		0.1195 mL	0.5973 mL	1.1947 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (2.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (2.99 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Roxithromycin (RU-28965) is a semi-synthetic macrolide antibiotic.

IC₅₀ & Target

Macrolide

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Mar 11.
- Theranostics. 2022 Jan 1;12(3):1187-1203.
- Chemosphere. 2019 Jun;225:378-387.
- Ann Transl Med. 2021 Mar;9(6):494.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. <http://en.wikipedia.org/wiki/Roxithromycin>

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

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