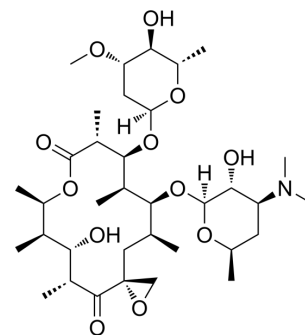


Oleandomycin

Cat. No.:	HY-116010	
CAS No.:	3922-90-5	
Molecular Formula:	C ₃₅ H ₆₁ NO ₁₂	
Molecular Weight:	687.86	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (145.38 mM; Need ultrasonic)
 H₂O : ≥ 12.5 mg/mL (18.17 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4538 mL	7.2689 mL	14.5378 mL
	5 mM	0.2908 mL	1.4538 mL	2.9076 mL
	10 mM	0.1454 mL	0.7269 mL	1.4538 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 (3.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (3.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (3.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oleandomycin is a macrolide antibiotic structurally closely related to Erythromycin. Oleandomycin is similar to Erythromycin with antimicrobial activity.

IC₅₀ & Target

Macrolide

REFERENCES

[1]. Vilches C, et al. Role of glycosylation and deglycosylation in biosynthesis of and resistance to oleandomycin in the producer organism, *Streptomyces antibioticus*. *J Bacteriol.* 1992 Jan;174(1):161-5.

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

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