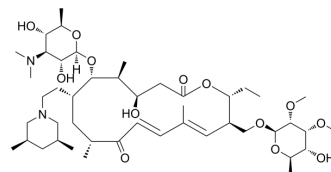


Tilmicosin

Cat. No.:	HY-B0905		
CAS No.:	108050-54-0		
Molecular Formula:	C ₄₆ H ₈₀ N ₂ O ₁₃		
Molecular Weight:	869.13		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

1M HCl : 100 mg/mL (115.06 mM; ultrasonic and adjust pH to 1 with HCl)
 DMSO : 100 mg/mL (115.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.1506 mL	5.7529 mL	11.5058 mL
	5 mM	0.2301 mL	1.1506 mL	2.3012 mL
	10 mM	0.1151 mL	0.5753 mL	1.1506 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 (2.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (2.88 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (2.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tilmicosin is a macrolide antibiotic, is used for the research of bovine respiratory disease and ovine respiratory disease associated with Mannheimia (Pasteurella) haemolytica.

IC₅₀ & Target

Macrolide

CUSTOMER VALIDATION

- Microorganisms. 2024 Jan 25, 12(2), 256.
- Vet Microbiol. 2024 May, 292, 110046.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Micotil 300 New Animal Drug Application

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA