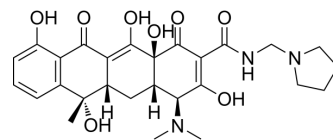


Rolitetracline

Cat. No.:	HY-18257	
CAS No.:	751-97-3	
Molecular Formula:	C ₂₇ H ₃₃ N ₃ O ₈	
Molecular Weight:	527.57	
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

H₂O : 10 mg/mL (18.95 mM; Need ultrasonic and warming)
 Ethanol : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8955 mL	9.4774 mL	18.9548 mL
	5 mM	0.3791 mL	1.8955 mL	3.7910 mL
	10 mM	0.1895 mL	0.9477 mL	1.8955 mL

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

BIOLOGICAL ACTIVITY

Description

Rolitetracline, a derivative of tetracycline, is a broad-spectrum antibiotic^{[1][2]}. Rolitetraclin has a role as a protein synthesis inhibitor, an antiprotozoal agent and a proagent^[3].

IC₅₀ & Target

Tetracycline

REFERENCES

- [1]. SMITH L, ROLITETRACYCLINE, AN ANTIBIOTIC FOR PARENTERAL USE. (SYNTETRIN, VELACYCLINE). JAMA. 1964 Jan 11;187:141.
- [2]. Rolitetracline
- [3]. Blackwood R K, et al. Structure–Activity Relationships in the Tetracycline Series. Advances in applied microbiology, 1970, 13:237-266.

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

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