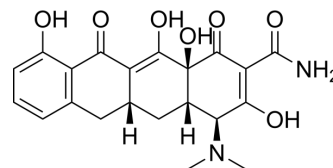


Sancycline

Cat. No.:	HY-17466		
CAS No.:	808-26-4		
Molecular Formula:	C ₂₁ H ₂₂ N ₂ O ₇		
Molecular Weight:	414.41		
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 : 8.33 mg/mL (20.10 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4131 mL	12.0653 mL	24.1307 mL
	5 mM	0.4826 mL	2.4131 mL	4.8261 mL
	10 mM	0.2413 mL	1.2065 mL	2.4131 mL

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

BIOLOGICAL ACTIVITY

Description

Sancycline is a rare semi-synthetic tetracycline prepared by hydrogenolysis of the chloro and benzylic hydroxy moieties of Declomycin. Target: Like other tetracyclines, sancycline acts by reversibly binding to the 30S ribosomal subunit and inhibiting protein translation by blocking entry of aminoacyl-tRNA into the ribosome A site.

IC₅₀ & Target

Tetracycline

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

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