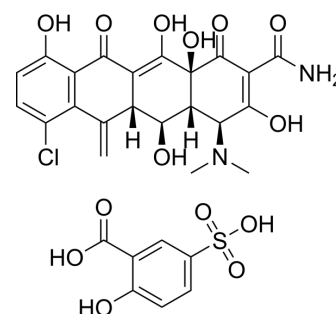


Meclocycline Sulfosalicylate Salt

Cat. No.:	HY-B1366
CAS No.:	73816-42-9
Molecular Formula:	C ₂₉ H ₂₇ ClN ₂ O ₁₄ S
Molecular Weight:	695.05
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (359.69 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.4387 mL	7.1937 mL	14.3875 mL
		5 mM	0.2877 mL	1.4387 mL	2.8775 mL
		10 mM	0.1439 mL	0.7194 mL	1.4387 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.17 mg/mL (6.00 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.17 mg/mL (6.00 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Meclocycline Sulfosalicylate Salt is a tetracycline antibiotic with broad-spectrum antibacterial activities, preventing skin bacterial infections such as acne vulgaris ^[1] .
IC₅₀ & Target	Tetracycline

REFERENCES

[1]. Knutson DD, et al. Meclocycline sulfosalicylate. Topical antibiotic agent for the treatment of acne vulgaris. *Cutis*. 1981 Feb;27(2):203-4, 208-10.

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

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