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Produktinformation



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Diagnostik & molekulare Diagnostik



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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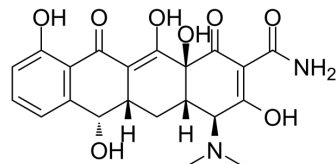
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Demecycline

Cat. No.:	HY-108971		
CAS No.:	987-02-0		
Molecular Formula:	C ₂₁ H ₂₂ N ₂ O ₈		
Molecular Weight:	430.41		
Target:	Bacterial		
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

DMSO : ≥ 100 mg/mL (232.34 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3234 mL	11.6168 mL	23.2337 mL
	5 mM	0.4647 mL	2.3234 mL	4.6467 mL
	10 mM	0.2323 mL	1.1617 mL	2.3234 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 (5.81 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (5.81 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: 2.5 mg/mL (5.81 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Demecycline, a tetracycline antibiotic, is the C6-demethylated derivative of Tetracycline (HY-A0107) against bacterial infections including pneumonia and other respiratory tract infections^[1].

REFERENCES

[1]. Yang W, Kong L, Wang Q, Deng Z, You D. Metabolic engineering of a methyltransferase for production of drug precursors demecycline and demeclocycline in *Streptomyces aureofaciens*. *Synth Syst Biotechnol.* 2020;5(3):121-130. Published 2020 Jun 23.

[2]. Results from the Swedish national screening programme 2005.

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

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