Proteins

Product Data Sheet

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

2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (232.34 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

- 1. 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
- 2. 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
- 3. 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



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