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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Demeclocycline

Chemical Properties

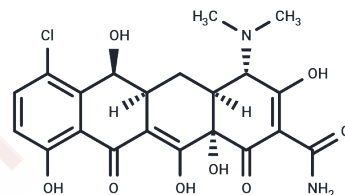
CAS No. : 127-33-3

Formula: C₂₁H₂₁ClN₂O₈

Molecular Weight: 464.85

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Demeclocycline (Declostatin) is a tetracycline antibiotic produced by a strain of <i>Streptomyces aureofaciens</i> . Demeclocycline has antimicrobial activity and inhibits the action of vasopressin on the renal tubules, leading to diuresis. Demeclocycline can be used to induce diuresis and acute renal failure.
Targets(IC ₅₀)	Antibacterial
In vitro	Demeclocycline (10 μM; 24 h) is a novel BTICs growth inhibitor, which can directly stimulate the activity of monocytes and macrophages[4].
In vivo	Demeclocycline (40 mg/kg; intraperitoneal injection; once daily; for 48 hours) resulted in increased urine volume, decreased urine osmolality, and significantly increased fractional excretion of water[3].

Solubility Information

Solubility	H ₂ O: 20 mg/mL (43.02 mM), Sonication is recommended. DMSO: 10 mg/mL (21.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1512 mL	10.7562 mL	21.5123 mL
5 mM	0.4302 mL	2.1512 mL	4.3025 mL
10 mM	0.2151 mL	1.0756 mL	2.1512 mL
50 mM	0.043 mL	0.2151 mL	0.4302 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

I Chopra, et al. Tetracyclines, molecular and clinical aspects. J Antimicrob Chemother. 1992 Mar;29(3):245-77.
Huang C Y, Nicholson M W, Wang J Y, et al. Population-based high-throughput toxicity screen of human iPSC-

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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