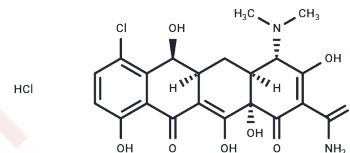


Demeclocycline hydrochloride

Chemical Properties

CAS No. :	64-73-3
Formula:	C ₂₁ H ₂₁ ClN ₂ O ₈ ·HCl
Molecular Weight:	501.32
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Demeclocycline hydrochloride (Declomycin) is a TETRACYCLINE analog having a 7-chloro and a 6-methyl. Because it is excreted more slowly than TETRACYCLINE, it maintains effective blood levels for longer periods of time.
Targets(IC50)	ribosome,Antibacterial,Antibiotic

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 25 mg/mL (49.87 mM),Sonication is recommended. DMSO: 50 mg/mL (99.74 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	1.9947 mL	9.9737 mL	19.9473 mL
5 mM	0.3989 mL	1.9947 mL	3.9895 mL
10 mM	0.1995 mL	0.9974 mL	1.9947 mL
50 mM	0.0399 mL	0.1995 mL	0.3989 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

- Imming P, et al. Nat Rev Drug Discov. 2006 Oct;5(10):821-34.
Zhang H, Liang B, Sang X, et al.Discovery of Potential Inhibitors of SARS-CoV-2 Main Protease by a Transfer Learning Method.Viruses.2023, 15(4): 891.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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