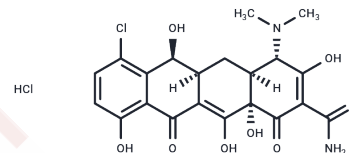


Demeclocycline hydrochloride

Chemical Properties

CAS No. :	64-73-3
Formula:	C ₂₁ H ₂₁ ClN ₂ O ₈ ·HCl
Molecular Weight:	501.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



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: 126 mg/mL (251.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.98 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.

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