

Omadacycline

Chemical Properties

CAS No. : 389139-89-3

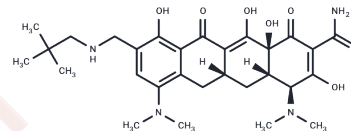
Formula: C₂₉H₄₀N₄O₇

Molecular Weight: 556.65

Store at low temperature

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	Omadacycline (Amadacycline), a new tetracycline antibiotic, can inhibit the 30s subunit of bacterial ribosome.
Targets(IC50)	ribosome,Antibacterial,Antibiotic
In vitro	Omadacycline had inhibitory against isolates of <i>M. abscessus</i> , <i>M. chelonae</i> , and <i>M. fortuitum</i> (MIC90 of 2 µg/ml, 0.25 µg/ml, and 0.5 µg/ml, respectively).

Solubility Information

Solubility	DMSO: 50 mg/mL (89.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 5 mg/mL (8.98 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	1.7965 mL	8.9823 mL	17.9646 mL
5 mM	0.3593 mL	1.7965 mL	3.5929 mL
10 mM	0.1796 mL	0.8982 mL	1.7965 mL
50 mM	0.0359 mL	0.1796 mL	0.3593 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

Shoen C, et al. In vitro activities of omadacycline against rapidly growing mycobacteria. *Antimicrob Agents Chemother.* 2019 Mar 11.

Kaduk J A, Boaz N C, Gates-Rector S, et al. Omadacycline dihydrate, C₂₉H₄₀N₄O₇ · 2H₂O, from X-ray powder diffraction data. *Acta Crystallographica Section E: Crystallographic Communications.* 2024, 80(3).

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