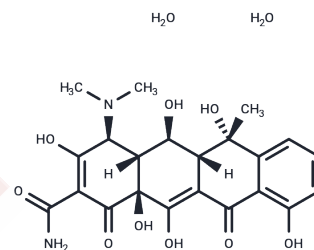


## Oxytetracycline Dihydrate

### Chemical Properties

CAS No. :	6153-64-6
Formula:	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub> ·2H <sub>2</sub> O
Molecular Weight:	496.46
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	Oxytetracycline Dihydrate (Terramycin Dihydrate) is a prescription antibiotic, interfering with the ability of bacteria to produce essential proteins.
Targets(IC50)	Endogenous Metabolite,Antibacterial,Antibiotic,HSV

### Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (100.71 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0143 mL	10.0713 mL	20.1426 mL
5 mM	0.4029 mL	2.0143 mL	4.0285 mL
10 mM	0.2014 mL	1.0071 mL	2.0143 mL
50 mM	0.0403 mL	0.2014 mL	0.4029 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

- Li Y, Wang H, Liu X, Zhao G, Sun Y. Environ Sci Pollut Res Int. 2016 Apr 13.
- Leal JF, Esteves VI, Santos EB. Environ Pollut. 2016 Apr 3;213:932-939.

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