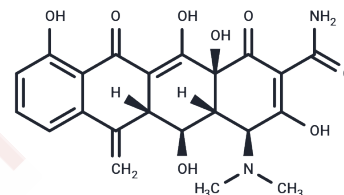


## Methacycline

## Chemical Properties

CAS No. :	914-00-1
Formula:	C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>8</sub>
Molecular Weight:	442.42
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	Methacycline, a tetracycline antibiotic, inhibits bacterial protein synthesis and effectively suppresses epithelial-mesenchymal transition (EMT). It blocks EMT in vitro and inhibits fibrogenesis in vivo without directly affecting the TGF-β1/Smad signaling pathway. As an antimicrobial agent, Methacycline holds potential for research in pulmonary fibrosis.
Targets(IC50)	CaSR,Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2603 mL	11.3015 mL	22.603 mL
5 mM	0.4521 mL	2.2603 mL	4.5206 mL
10 mM	0.226 mL	1.1301 mL	2.2603 mL
50 mM	0.0452 mL	0.226 mL	0.4521 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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