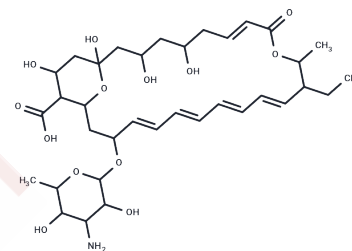


Tetramycin

Chemical Properties

CAS No. :	11076-50-9
Formula:	C ₃₅ H ₅₃ N ₁ O ₁₃
Molecular Weight:	695.79
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	Tetramycin (Tetramycin A) is a macrolide antibiotic isolated from <i>Streptomyces hygrospinosus</i> var. <i>Beijingensis</i> . 24-Demethyl-24-ethyltetra A is a new and highly effective polyene antibiotic with excellent antibacterial activity against a variety of plant pathogens, low toxicity and environmental advantages. The C-4 position of Tetramycin A is a hydrogen atom, while Tetramycin B is a hydroxyl group.
Targets(IC50)	Antifungal

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4372 mL	7.1861 mL	14.3722 mL
5 mM	0.2874 mL	1.4372 mL	2.8744 mL
10 mM	0.1437 mL	0.7186 mL	1.4372 mL
50 mM	0.0287 mL	0.1437 mL	0.2874 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

Zhang C, et al. Co-Application of Tetramycin and Chitosan in Controlling Leaf Spot Disease of Kiwifruit and Enhancing Its Resistance, Photosynthesis, Quality and Amino Acids. *Biomolecules*. 2022 Mar 25;12(4):500.

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Cui H, Ni X, Shao W, Su J, Su J, Ren J, Xia H. Functional manipulations of the tetramycin positive regulatory gene *ttmRIV* to enhance the production of tetramycin A and nystatin A1 in *Streptomyces ahygroscopicus*. *J Ind Microbiol Biotechnol*. 2015 Sep;42(9):1273-82. doi: 10.1007/s10295-015-1660-3. Epub 2015 Aug 2. PubMed PMID: 26233316.

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