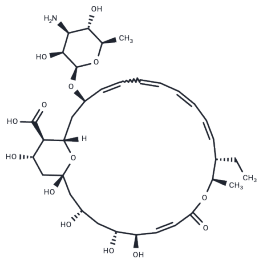
Data Sheet (Cat.No.TN7795)

TargetMol

Tetramycin B

Chemical Properties



CAS No. : 82517-08-6

Formula: C35H53NO14

Molecular Weight: 711.79

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 B (4-Hydroxytetramycin A), a polyene macrolide antibiotic and potent antifungal agent, is derived from Streptomyces hygrospinosus var. Beijingensis. Tetramycin B exhibits greater antifungal activity compared to Tetramycin A, primarily due to the critical role of its C-4 hydroxyl in enhancing its biological function.Tetramycin B is effective against various plant pathogenic fungi and has potential agricultural applications.
Targets(IC50)	Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4049 mL	7.0245 mL	14.0491 mL
5 mM	0.281 mL	1.4049 mL	2.8098 mL
10 mM	0.1405 mL	0.7025 mL	1.4049 mL
50 mM	0.0281 mL	0.1405 mL	0.281 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 N, et al. [Isolation, purification and characterization of antifungal substances from Streptomyces hygroscopicus BS-112]. Wei Sheng Wu Xue Bao. 2011 Feb;51(2):224-32.

Cao B, et L. Genome mining of the biosynthetic gene cluster of the polyene macrolide antibiotic tetramycin and characterization of a P450 monooxygenase involved in the hydroxylation of the tetramycin B polyol segment. Chembiochem. 2012 Oct 15;13(15):2234-42.

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