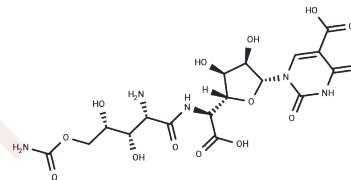


## Polyoxin D

## Chemical Properties

CAS No. :	22976-86-9
Formula:	C17H23N5O14
Molecular Weight:	521.39
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	Polyoxin D is a nucleopeptide antibiotic produced by Streptomyces bacteria. Polyoxin D exerts its antifungal activity by inhibiting the activity of chitin synthases in the fungal cell wall, thereby blocking cell wall formation. Polyoxin D is active against a variety of plant pathogenic fungi and is commonly used in research on agricultural fungicides and the mechanisms of fungal cell wall synthesis.
Targets(IC50)	Antibacterial, Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.918 mL	9.5898 mL	19.1795 mL
5 mM	0.3836 mL	1.918 mL	3.8359 mL
10 mM	0.1918 mL	0.959 mL	1.918 mL
50 mM	0.0384 mL	0.1918 mL	0.3836 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

- B Bowers, et al. Effect of polyoxin D on chitin synthesis and septum formation in Saccharomyces cerevisiae. J Bacteriol. 1974 Aug;119(2):564-75.  
J M Becker, et al. Polyoxin D inhibits growth of zoopathogenic fungi. Antimicrob Agents Chemother. 1983 Jun;23(6):926-9.

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