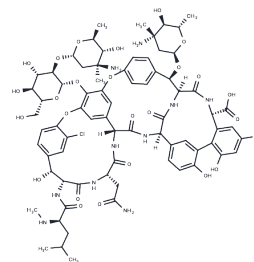


Eremomycin

Chemical Properties

CAS No. :	110865-90-2
Formula:	C73H89ClN10O26
Molecular Weight:	1557.99
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Eremomycin is a glycopeptide antibiotic produced by actinomycetes. Structurally similar to vancomycin derivatives, Eremomycin exerts its antibacterial effect by inhibiting peptidoglycan synthesis. Eremomycin exhibits strong activity against a wide range of Gram-positive bacteria and is widely used in research on antibiotic mechanisms and resistance.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	H2O: 100.00 mg/mL (64.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6419 mL	3.2093 mL	6.4185 mL
5 mM	0.1284 mL	0.6419 mL	1.2837 mL
10 mM	0.0642 mL	0.3209 mL	0.6419 mL
50 mM	0.0128 mL	0.0642 mL	0.1284 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

Bychkova EN, et al. Design of Novel Carboxamides of Eremomycin and Vancomycin with 4- or 3-Amino Methyl Phenyl Boric Acid and Their Investigation. *Antibiot Khimioter.* 2015;60(9-10):7-11. Russian.

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Chang J, et al. The Carboxyl Terminus of Eremomycin Facilitates Binding to the Non-d-Ala-d-Ala Segment of the Peptidoglycan Pentapeptide Stem. *Biochemistry.* 2016 Jun 21;55(24):3383-91.

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