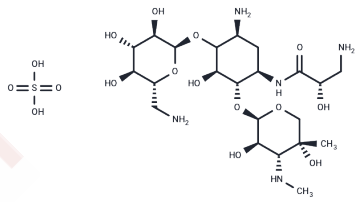
Data Sheet (Cat.No.T6549)

TargetMol

Isepamicin sulfate

Chemical Properties



CAS No. : 67814-76-0

Formula: C22H43N5O12·SH2O4

Molecular Weight: 667.68

Storage: Keep away from direct sunlight
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	Isepamicin sulfate (sch21420) Sulphate) , an aminoglycoside antibacterial with good activity against strains producing type I 6-acetyltransferase, inhibits bacterial protein synthesis by targeting the bacterial 30S ribosomal subunit.
Targets(IC50)	Antibacterial,Antibiotic
In vitro	Isepamicin might be active in vitro against Gram-negative bacteria with resistance to amikacin and other aminoglycosides. The antibacterial spectrum of Isepamicin Sulphate includes Enterobacteriaceae and staphylococci, anaerobes, neisseriaceae and streptococci are resistant.

Solubility Information

Solubility	H2O: 250 mg/mL (374.43 mM),Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4977 mL	7.4886 mL	14.9772 mL
5 mM	0.2995 mL	1.4977 mL	2.9954 mL
10 mM	0.1498 mL	0.7489 mL	1.4977 mL
50 mM	0.030 mL	0.1498 mL	0.2995 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

Samonis G,et al.Eur J Clin Microbiol Infect Dis. 2012 Nov;31(11):3191-8.
Sun Y, Wu J, Shen B, et al.Discovery of TRPV4-Targeting Small Molecules with Anti-Influenza Effects Through Machine Learning and Experimental Validation.International Journal of Molecular Sciences.2025, 26(3): 1381.
Falagas ME, et al.Expert Rev Anti Infect Ther. 2012 Feb;10(2):207-18.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481