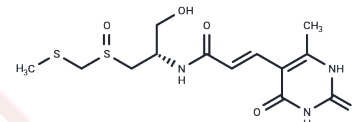


Sparsomycin

Chemical Properties

CAS No. :	1404-64-4
Formula:	C ₁₃ H ₁₉ N ₃ O ₅ S ₂
Molecular Weight:	361.44
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	Sparsomycin is an antitumor antibiotic. It also inhibits protein synthesis in the 70S and 80S ribosomal systems.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7667 mL	13.8336 mL	27.6671 mL
5 mM	0.5533 mL	2.7667 mL	5.5334 mL
10 mM	0.2767 mL	1.3834 mL	2.7667 mL
50 mM	0.0553 mL	0.2767 mL	0.5533 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

- Miyauchi K, Komano J, Myint L, Futahashi Y, Urano E, Matsuda Z, Chiba T, Miura H, Sugiura W, Yamamoto N. Rapid propagation of low-fitness drug-resistant mutants of human immunodeficiency virus type 1 by a streptococcal metabolite sparsomycin. *Antivir Chem Chemother.* 2006;17(4):167-74. PubMed PMID: 17066895.
- Ge X, Roux B. Absolute binding free energy calculations of sparsomycin analogs to the bacterial ribosome. *J Phys Chem B.* 2010 Jul 29;114(29):9525-39. doi: 10.1021/jp100579y. PubMed PMID: 20608691.
- Li S, Cheng X, Zhou Y, Xi Z. Sparsomycin-linezolid conjugates can promote ribosomal translocation. *Chembiochem.* 2011 Dec 16;12(18):2801-6. doi: 10.1002/cbic.201100508. Epub 2011 Oct 28. PubMed PMID: 22038852.
- Ge X, Roux B. Calculation of the standard binding free energy of sparsomycin to the ribosomal peptidyl-transferase P-site using molecular dynamics simulations with restraining potentials. *J Mol Recognit.* 2010 Mar-Apr;23(2):128-41. doi: 10.1002/jmr.996. PubMed PMID: 20151411.

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