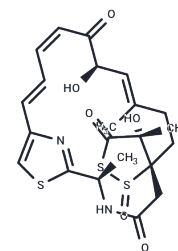


Leinamycin

Chemical Properties

CAS No. :	120500-15-4
Formula:	C ₂₂ H ₂₆ N ₂ O ₆ S ₃
Molecular Weight:	510.65
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	Leinamycin is a thiazole containing macrolide that is extracted from Streptomyces possibly used as a DNA alkylator.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9583 mL	9.7914 mL	19.5829 mL
5 mM	0.3917 mL	1.9583 mL	3.9166 mL
10 mM	0.1958 mL	0.9791 mL	1.9583 mL
50 mM	0.0392 mL	0.1958 mL	0.3917 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

Huang SX, Yun BS, Ma M, Basu HS, Church DR, Ingenhorst G, Huang Y, Yang D, Lohman JR, Tang GL, Ju J, Liu T, Wilding G, Shen B. Leinamycin E1 acting as an anticancer prodrug activated by reactive oxygen species. *Proc Natl Acad Sci U S A*. 2015 Jul 7;112(27):8278-83. doi: 10.1073/pnas.1506761112. Epub 2015 Jun 8. PubMed PMID: 26056295; PubMed Central PMCID: PMC4500275.

Keerthi K, Rajapakse A, Sun D, Gates KS. Synthesis and characterization of a small analogue of the anticancer natural product leinamycin. *Bioorg Med Chem*. 2013 Jan 1;21(1):235-41. doi: 10.1016/j.bmc.2012.10.021. Epub 2012 Oct 27. PubMed PMID: 23168080; PubMed Central PMCID: PMC3532941.

Viswesh V, Hays AM, Gates K, Sun D. DNA cleavage induced by antitumor antibiotic leinamycin and its biological consequences. *Bioorg Med Chem*. 2012 Jul 15;20(14):4413-21. doi: 10.1016/j.bmc.2012.05.033. Epub 2012 May 23. PubMed PMID: 22682923; PubMed Central PMCID: PMC3389147.

Katt WP, Cerione RA. Less than the sum of its parts, a leinamycin precursor has superior properties. *Proc Natl Acad Sci U S A*. 2015 Jul 7;112(27):8164-5. doi: 10.1073/pnas.1510122112. Epub 2015 Jun 23. PubMed PMID: 26106161; PubMed Central PMCID: PMC4500279.

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