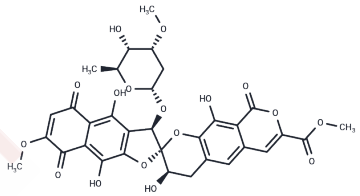
Data Sheet (Cat.No.T36748)

TargetMol

Heliquinomycin

Chemical Properties



CAS No. : 178182-49-5

Formula: C33H30O17

Molecular Weight: 698.586

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	Heliquinomycin is a bacterial metabolite originally isolated fromStreptomycesthat has diverse biological activities.1It is active against a variety of Gram-positive bacteria, including strains ofB. anthracis, B. subtilis, and methicillin-sensitive or -resistantS. aureus(MICs = <0.05-0.39 μg/ml). Heliquinomycin inhibits the activity of DNA helicase with a Kivalue of 6.8 μM. It reduces the growth of L1210 leukemia, B16 melanoma, and FS-3 fibrosarcoma cells (IC50s = 0.97, 0.89, and 0.83 μg/ml, respectively).
Targets(IC50)	Others,Antibacterial,DNA/RNA Synthesis,Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4315 mL	7.1573 mL	14.3145 mL
5 mM	0.2863 mL	1.4315 mL	2.8629 mL
10 mM	0.1431 mL	0.7157 mL	1.4315 mL
50 mM	0.0286 mL	0.1431 mL	0.2863 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

Chino, M., Nishikawa, K., Umekita, M., et al.Heliquinomycin, a new inhibitor of DNA helicase, produced by Streptomyces sp. MJ929-SF2 I. Taxonomy, production, isolation, physico-chemical properties and biological activitiesJ. Antibiot. (Tokyo)49(8)752-757(1996)

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