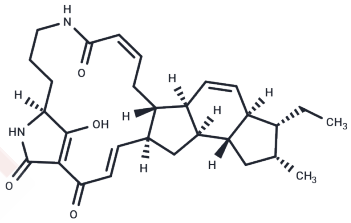
Data Sheet (Cat.No.T15556)

TargetMol

Ikarugamycin

Chemical Properties



CAS No. : 36531-78-9

Formula: C29H38N2O4

Molecular Weight: 478.62

Storage: Store at low temperature
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	Ikarugamycin is a macrolide antibiotic discovered in Streptomyces, exhibiting antiprotozoal activity, inducing apoptosis and activating caspases, and also acting as a CME (clathrin-mediated endocytosis) inhibitor.
Targets(IC50)	Apoptosis,Others,Caspase,Antibiotic
In vitro	In H1299 cells, the IC50 value of Ikarugamycin was 2.7 μM, and it significantly inhibited TfnR endocytosis at a concentration of 4 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0893 mL	10.4467 mL	20.8934 mL
5 mM	0.4179 mL	2.0893 mL	4.1787 mL
10 mM	0.2089 mL	1.0447 mL	2.0893 mL
50 mM	0.0418 mL	0.2089 mL	0.4179 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

Elkin SR, et al. Ikarugamycinrugamycin: A Natural Product Inhibitor of Clathrin-Mediated Endocytosis. Traffic. 2016 Oct;17(10):1139-49.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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