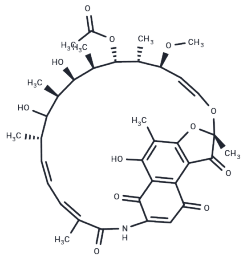
Data Sheet (Cat.No.T8347)

TargetMol

Rifamycin S

Chemical Properties



CAS No. : 13553-79-2

Formula: C37H45NO12

Molecular Weight: 695.75

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	Rifamycin S is a potent DNA-dependent RNA polymerase inhibitor,is a quinone and an antibiotic agnet against Gram-positive bacteria
Targets(IC50)	Reactive Oxygen Species,Antibacterial,Antibiotic,ROS
In vivo	rifamycin S and rifabutin can interact with rat liver microsomes to undergo redox-cycling, with the subsequent production of hydroxyl radicals when iron complexes are present[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (359.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4373 mL	7.1865 mL	14.373 mL
5 mM	0.2875 mL	1.4373 mL	2.8746 mL
10 mM	0.1437 mL	0.7186 mL	1.4373 mL
50 mM	0.0287 mL	0.1437 mL	0.2875 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

Rao DN, et al. A comparative study of the redox-cycling of a quinone (rifamycin S) and a quinonimine (rifabutin) antibiotic by rat liver microsomes. Free Radic Biol Med. 1997;22(3):439-46.
Huang H, et al. Rifamycin S and its geometric isomer produced by a newly found actinomycete, Micromonospora rifamycinica. Antonie Van Leeuwenhoek. 2009 Feb;95(2):143-8.

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