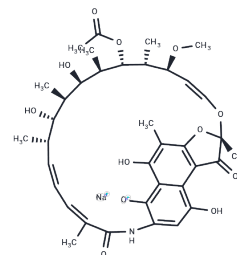


Rifamycin sodium

Chemical Properties

CAS No. :	14897-39-3
Formula:	C ₃₇ H ₄₆ NNaO ₁₂
Molecular Weight:	719.75
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 sodium (Rifamycin sodium salt) salt is an antibiotic that inhibits bacterial DNA-dependent RNA polymerase. It is effective against Gram-positive bacteria.
Targets(IC50)	Antibacterial, Antibiotic, DNA/RNA Synthesis

Solubility Information

Solubility	H ₂ O: 100 mg/mL (138.94 mM), Sonication is recommended. DMSO: 100 mg/mL (138.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (5.56 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3894 mL	6.9469 mL	13.8937 mL
5 mM	0.2779 mL	1.3894 mL	2.7787 mL
10 mM	0.1389 mL	0.6947 mL	1.3894 mL
50 mM	0.0278 mL	0.1389 mL	0.2779 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

Riva S, et al. Rifamycins: a general view. Annu Rev Microbiol. 1972;26:199-224.

Kohanski MA, et al. How antibiotics kill bacteria: from targets to networks. Nat Rev Microbiol. 2010 Jun;8(6):423-35.

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