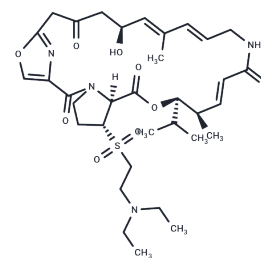


Dalfopristin

Chemical Properties

CAS No. :	112362-50-2
Formula:	C ₃₄ H ₅₀ N ₄ O ₉ S
Molecular Weight:	690.85
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Dalfopristin (RP54476) is a semi-synthetic streptogramin antibiotic. Quinupristin/Dalfopristin (Q/D) is used for the treatment of multi-drug resistant <i>Enterococcus faecium</i> infections.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 100 mg/mL (144.75 mM), Sonication is recommended. Ethanol: 100 mg/mL (144.75 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: 3.3 mg/mL (4.78 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	1.4475 mL	7.2375 mL	14.4749 mL
5 mM	0.2895 mL	1.4475 mL	2.895 mL
10 mM	0.1447 mL	0.7237 mL	1.4475 mL
50 mM	0.0289 mL	0.1447 mL	0.2895 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

Wang S, et al. Characteristic of Enterococcus faecium clinical isolates with quinupristin/Dalfopristin resistance in China. BMC Microbiol. 2016 Oct 21;16(1):246.

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