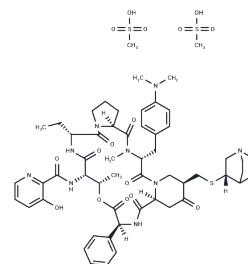


Quinupristin

Chemical Properties

CAS No. :	120138-50-3
Formula:	C53H67N9O10S
Molecular Weight:	1022.22
Storage:	Keep away from moisture, Keep away from direct sunlight 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	Quinupristin is a member of the macrolide-lincosamide-streptogramin class of antibiotics. Quinupristin blocks peptide bond synthesis to prevent the extension of polypeptide chains and promote the detachment of incomplete protein chains in the bacterial ribosomal subunits[1] [2].
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Quinupristin/dalfopristin, a combination of streptogramin antibiotics, is effective against infections, including those caused by Mycoplasma spp[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9783 mL	4.8913 mL	9.7826 mL
5 mM	0.1957 mL	0.9783 mL	1.9565 mL
10 mM	0.0978 mL	0.4891 mL	0.9783 mL
50 mM	0.0196 mL	0.0978 mL	0.1957 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

Gurk-Turner C. Quinupristin/dalfopristin: the first available macrolide-lincosamide-streptogramin antibiotic. Proc (Bayl Univ Med Cent). 2000 Jan;13(1):83-6.

Ke T, Zhao Z, Lin J, et al. Development of a UHPLC-MS/MS method for the quantification of Pristinamycin I A and II A in beagle dog plasma and its pharmacokinetic application. Journal of Pharmaceutical and Biomedical Analysis. 2024: 116401.

Tantibhedhyangkul W, et al. Anti-Mycoplasma Activity of Daptomycin and Its Use for Mycoplasma Elimination in Cell Cultures of Rickettsiae. Antibiotics (Basel). 2019 Aug 21;8(3).

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