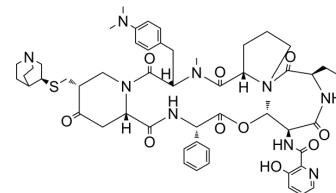


Quinupristin

Cat. No.:	HY-A0162
CAS No.:	120138-50-3
Molecular Formula:	C ₅₃ H ₆₇ N ₉ O ₁₀ S
Molecular Weight:	1022.22
Sequence Shortening:	T-Abu-PF-Pip-Phg (Lactone:Thr1-Phg6)
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (122.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass		
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Quinupristin is a streptogramin antibiotic. 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]}.

In Vitro

Quinupristin/dalfopristin is a combination of streptogramin antibiotics used to against infections. Quinupristin/dalfopristin is reportedly effective against Mycoplasma spp.^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Infect Dis Rep. 2021, 13(3), 843-854.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Gurk-Turner C. Quinupristin/dalfopristin: the first available macrolide-lincosamide-streptogramin antibiotic. Proc (Bayl Univ Med Cent). 2000 Jan;13(1):83-6.
- [2]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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