Data Sheet (Cat.No.T1214)



Ribostamycin sulfate

Chemical Properties

CAS No.: 53797-35-6

Formula: C17H34N4O10·H2SO4

Molecular Weight: 552.55

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Ribostamycin sulfate (Vistamycin sulfate) , an aminoglycoside antibiotic, contains a neutral sugar moiety and is produced by Streptomyces ribosome.		
Targets(IC50)	Antibacterial,Antibiotic		
In vitro	Ribostamycin, as an intermediate in the biosynthesis of neomycin, can inhibit the chaperone activity of protein disulfide isomerase (PDI) but does not inhibit its isomeractivity. At a concentration of 256 µg/mL, it exhibits almost no toxicity to HUVEC cells		
In vivo	Compared to other antibiotics, Ribostamycin (400 mg/kg/day) causes the lowest ototoxicity, as its drug concentration in the inner ear fluid of guinea pigs is relatively low. Ribostamycin exhibits the least ototoxicity to the cochlea and vestibular organs of guinea pigs.		

Solubility Information

Solubility	10%DMSO + 90% Saline: 100 mg/mL (180.98 mM), Sonication is recommended.		
	DMSO: Insoluble,		
	PBS: 100 mg/mL (180.98 mM),Sonication is recommended.		
	H2O: 100 mg/mL (180.98 mM), Sonication is recommended.		
	(< 1 mg/ml refers to the product slightly soluble or insoluble)		

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8098 mL	9.049 mL	18.0979 mL
5 mM	0.362 mL	1.8098 mL	3.6196 mL
10 mM	0.181 mL	0.9049 mL	1.8098 mL
50 mM	0.0362 mL	0.181 mL	0.362 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.

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Reference

Horibe T, et al. Biochem Biophys Res Commun, 2001, 289(5), 967-972. Hunfeld KP, et al. Int J Antimicrob Agents, 2001, 17(3), 203-208. Casal M, et al. Mycopathologia, 1983, 83(1), 21-23. Kitasato I, et al. Chemotherapy, 1990, 36(2), 155-168.

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