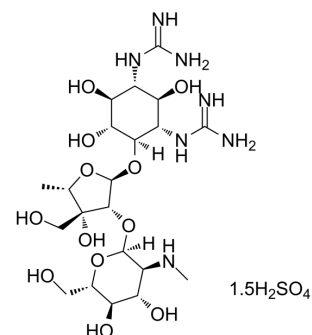


Dihydrostreptomycin sulfate

Cat. No.:	HY-B1241
CAS No.:	5490-27-7
Molecular Formula:	C ₂₁ H ₄₁ N ₇ O ₁₂ · 3/2 H ₂ SO ₄
Molecular Weight:	730.71
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (342.13 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.3685 mL	6.8427 mL	13.6853 mL
		5 mM		0.2737 mL	1.3685 mL	2.7371 mL
	10 mM		0.1369 mL	0.6843 mL	1.3685 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (136.85 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Dihydrostreptomycin sulfate is an aminoglycoside antibiotic, used to treat bacterial diseases in cattle, pigs and sheep.
IC₅₀ & Target	Aminoglycoside

REFERENCES

[1]. Marcotti W, et al. The aminoglycoside antibiotic dihydrostreptomycin rapidly enters mouse outer hair cells through the mechano-electrical transducer channels. *J Physiol.* 2005 Sep 1;567(Pt 2):505-21.

[2]. LIGHTBOWN JW, et al. Inhibition of cytochrome systems of heart muscle and certain bacteria by the antagonists of dihydrostreptomycin: 2-alkyl-4-hydroxyquinoline N-oxides. *Biochem J.* 1956 May;63(1):130-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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