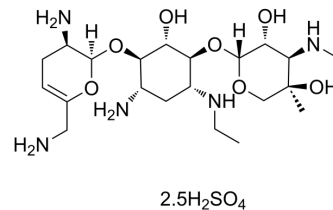


Netilmicin sulfate

Cat. No.:	HY-A0086
CAS No.:	56391-57-2
Molecular Formula:	$C_{21}H_{41}N_5O_7 \cdot 5/2H_2SO_4$
Molecular Weight:	720.78
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 : 100 mg/mL (138.74 mM; Need ultrasonic)					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.3874 mL	6.9369 mL	13.8739 mL
5 mM			0.2775 mL	1.3874 mL	2.7748 mL	
	10 mM		0.1387 mL	0.6937 mL	1.3874 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (69.37 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Netilmicin (sulfate) (SCH-20569 (sulfate)) is an active aminoglycoside antibiotic against most Gram-negative and some Gram-positive bacteria, including certain strains resistant to gentamicin.
IC₅₀ & Target	Aminoglycoside

REFERENCES

- [1]. Campoli-Richards DM, et al. Netilmicin. A review of its antibacterial activity, pharmacokinetic properties and therapeutic use. *Drugs*. 1989 Nov;38(5):703-56.
- [2]. Adams E, et al. Determination of netilmicin sulfate by liquid chromatography with pulsed electrochemical detection. *J Chromatogr A*. 1998 Jul 3;812(1-2):151-7.

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

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