Kasugamycin hydrochloride

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-B1864A 19408-46-9 C ₁₄ H ₂₆ ClN ₃ O ₉ 415.82 Bacterial; Antibiotic Anti-infection	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4049 mL	12.0244 mL	24.0489 mL
		5 mM	0.4810 mL	2.4049 mL	4.8098 mL
		10 mM	0.2405 mL	1.2024 mL	2.4049 mL

BIOLOGICAL ACTIVITY

Description

Kasugamycin hydrochloride (Ksg hydrochloride) is an antibiotic which binds both the 30S and 70S ribosome but not isolated 50S subunits. Kasugamycin hydrochloride (Ksg hydrochloride) mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation^{[1][2]}.

CUSTOMER VALIDATION

• Front Mol Biosci. 2021 Apr 7;8:640356.

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REFERENCES

[1]. Schluenzen F, et al. The antibiotic kasugamycin mimics mRNA nucleotides to destabilize tRNA binding and inhibit canonical translation initiation. Nat Struct Mol Biol.

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2006 Oct;13(10):871-8.

[2]. Schuwirth BS, et al. Structural analysis of kasugamycin inhibition of translation. Nat Struct Mol Biol. 2006 Oct;13(10):879-86.

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

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