

Product Datasheet

Paromomycin Sulfate (orb1226643)

Catalog Number	orb1226643
Category	Small Molecules
Description	<p>Paromomycin Sulfate is an aminoglycoside antibiotics inhibiting protein synthesis in non-resistant cells by binding to 16S ribosomal RNA.(In Vitro):Paromomycin sulfate (500 µg/ml) reduces intracellular parasitic forms by 97.2% compared to control in Caco-2 cells and reduces the percentage of intracellular C. parvum forms by 99.5% in HCT-8 cells.(In Vivo):Paromomycin sulfate (oral gavage; 50 mg/kg-200 mg/kg; once daily; for five consecutive days two weeks post infection) reduces the number of oocyst per gram of feces and intestine. It shows minimal focal inflammation in only 20% of the sections at 50 mg/kg from the intestines of mice infected with C. parvum and only 10% of focal inflammation at 200 mg/kg.</p>
Target	Antibacterial
Purity	>98% (HPLC)
MW	713.71
Target Areas	16S rRNA
Solubility (25°C)	Water: 100 mg/mL (140.11 mM)
CAS Number	1263-89-4
Formula	$C_{23}H_{47}N_5O_{18}S$
SMILES	<chem>C1[C@@H]([C@@H]([C@H]([C@@H]([C@H]1N)O[C@@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)O)O)N)O[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O[C@@H]4[C@H]([C@H]([C@@H]([C@@H](O4)CN)O)O)N)O)N.OS(=O)(=O)O</chem>
Storage	Storage temperature: -20°C. Stability: ≥ 2 years

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Note For research use only

Expiration Date 12 months from date of receipt.

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