



Paromomycin Sulfate - PRODUCT DATA SHEET

Version 2.0

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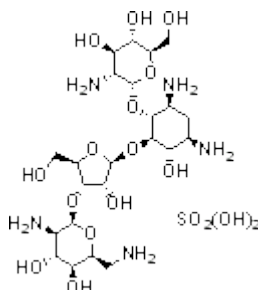
Product Name: Paromomycin Sulfate

Product Number: P002

CAS Number: 1263-89-4

Chemical Formula: $C_{23}H_{45}N_5O_{14} \cdot H_2SO_4$

Structure:



Molecular Weight: 713.71

Appearance: Almost colorless powder

Description: Paromycin is an aminoglycoside that inhibits protein synthesis in non-resistant cells by binding to the ribosome and disrupting translocation of tRNA during translation. It is a broad spectrum antibiotic soluble in water, very similar in action to Neomycin.

Storage Temperature: 2-8°C

Mechanism of Action: Inhibits initiation and elongation during protein synthesis.

Antimicrobial Potency for Paromomycin:

Organism	MIC50 (µg/ml)	MIC90 (µg/ml)	Range (µg/ml)
<i>Escherichia coli</i> (ATCC 25922)			4-?
<i>Staphylococcus aureus</i> (ATCC 25923)			0.5-?

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