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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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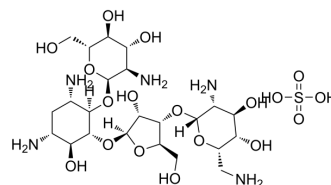
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Paromomycin sulfate (Standard)

Cat. No.:	HY-B0956R
CAS No.:	1263-89-4
Molecular Formula:	C ₂₃ H ₄₇ N ₅ O ₁₈ S
Molecular Weight:	713.71
Target:	Parasite; Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Paromomycin (sulfate) (Standard) is the analytical standard of Paromomycin (sulfate). This product is intended for research and analytical applications. Paromomycin (Aminosidine) sulfate, a neomycin (HY-B0470) derivative, is a broad spectrum aminoglycoside antibiotic with amebicidal and bactericidal effects. Paromomycin sulfate prematurely terminates translation of mRNA and inhibits protein synthesis by specifically binding to the RNA oligonucleotide at the A site of bacterial 30S ribosomes. Paromomycin sulfate can be used for the research of bacterial and parasitic infections^{[1][2][3]}.

REFERENCES

- [1]. Tony J Tavares, et al. Structure of the cytosine-cytosine mismatch in the thymidylate synthase mRNA binding site and analysis of its interaction with the aminoglycoside paromomycin. *RNA*. 2009 May;15(5):911-22.
- [2]. Mohamed Mammeri, et al. Efficacy of chitosan, a natural polysaccharide, against *Cryptosporidium parvum* in vitro and in vivo in neonatal mice. *Exp Parasitol*. 2018 Nov;194:1-8.
- [3]. Ibrahim Aly, et al. Efficacy of Low and High Dose of Paromomycin Sulfate for Treatment of Cryptosporidiosis in Immunosuppressed Infected-Mice. *Global Veterinaria* 15 (2): 137-143, 2015

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

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