LKT Laboratories, Inc.

Paromomycin Sulfate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

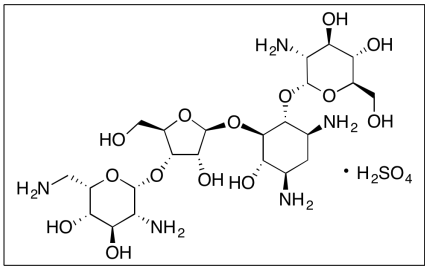
Product Information

Product ID P0370

CAS No. 1263-89-4

Chemical Name D-Streptamine, O-2-amino-2-deoxy-alpha-D-glucopyranosyl-(1->4)-O-(O-2,6-diamino-2,6-dideoxy-beta-L-idopyranosyl-(1->3)-beta-D-ribofuranosyl-(1->5))-2-deoxy-, sulfate (salt)

Synonym Aminosidin sulfate, Gabbroral, Aminoxidin, Farmiglucin, Humagel, Humatin, Pargonyl, Sinosid.



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

Formula Wt. 713.71

Melting Point

Purity ≥98%

Solubility Soluble in water (>100 mg/mL).

Bulk quanitites available upon request

Product ID	Size
P0370	1 g
P0370	5 g
P0370	25 g

Store Temp Ambient

Ship Temp Ambient

Description Paromomycin is an aminoglycoside antibiotic that inhibits cation channels such as PX2X receptors; it exhibits antibacterial, anti-parasitic, and anti-protozoal activities. Paromomycin is clinically used to treat leishmaniasis. This compound inhibits ribosomal recycling, binding to the large subunit of the ribosome and inhibiting interactions between the ribosome and ribosome recycling factor (RRF). Paromomycin also decreases the mitochondrial membrane potential and suppresses protein synthesis (inhibiting translocation of RNA).

References

Bongartz EV, Rettinger J, Hausmann R. Aminoglycoside block of P2X2 receptors heterologously expressed in Xenopus laevis oocytes. Purinergic Signal. 2010 Dec;6(4):393-403. PMID: 21437010.

Jhingran A, Chawla B, Saxena S, et al. Paromomycin: uptake and resistance in Leishmania donovani. Mol Biochem Parasitol. 2009 Apr;164(2):111-7. PMID: 19146886.

Borovinskaya MA, Pai RD, Zhang W, et al. Structural basis for aminoglycoside inhibition of bacterial ribosome recycling. Nat Struct Mol Biol. 2007 Aug;14(8):727-32. PMID: 17660832.