LKT Laboratories, Inc.

Kanamycin A Monosulfate

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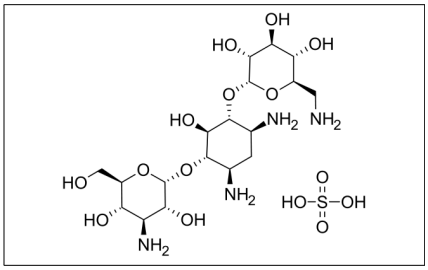
Product Information

Product ID K0053
CAS No. 25389-94-0
Chemical Name D-Streptamine,O-3-amino-3-deoxy-alpha-D- glucopyranosyl-(1-6)-O-(6-amino-6-deoxy-alpha-D- glucopyranosyl-(1-4))-2-deoxy-

Synonym Kanamycin



Formula $C_{18}H_{36}N_4O_{11} \cdot H_2SO_4$
Formula Wt. 582.58
Melting Point
Purity ≥98%
Solubility Soluble in water (100mM) or alcohol.

Bulk quanitites available upon request

Product ID	Size
K0053	1 g
K0053	5 g
K0053	25 g

Store Temp Ambient
Ship Temp Ambient

Description Kanamycin A is an aminoglycoside antibiotic that binds the bacterial 16s rRNA subunit, inhibiting translocation and degrading target RNA; it displays antibacterial efficacy against gram negative bacteria. Kanamycin also prevents formation of the initiation complex. Kanamycin A also inhibits mammalian RNA splicing.

References

Romanowska J, Reuter N, Trylska J. Comparing aminoglycoside binding sites in bacterial ribosomal RNA and aminoglycoside modifying enzymes. Proteins. 2013 Jan;81(1):63-80. PMID: 22907688.

Patwardhan A, Cowan JA. Influence of charge and structure on the coordination chemistry of copper aminoglycosides. Dalton Trans. 2011 Feb 28;40(8):1795-801. PMID: 21218243.

Aukema KG, Chohan KK, Plourde GL, et al. Small molecule inhibitors of yeast pre-mRNA splicing. ACS Chem Biol. 2009 Sep 18;4(9):759-68. PMID: 19634919.