



LKT Laboratories, Inc.

Kanamycin B

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Product Information

Product ID K0054

CAS No. 4696-76-8

Chemical Name O-3-amino-3-deoxy- α -D-glucopyranosyl-(1-4)-O-(2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl-(1-6))-2-deoxy-D-Streptamine

Synonym Bekanamycin, NK-1006, Nebramycin V.

Formula $C_{18}H_{37}N_5O_{10}$

Formula Wt. 483.51

Melting Point 178-182°C (dec)

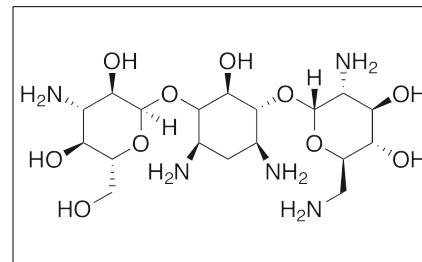
Purity $\geq 98\%$

Solubility Soluble in water or formamide. Slightly soluble in chloroform, isopropyl alcohol.

Store Temp Ambient

Ship Temp Ambient

Description Kanamycin B 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 inhibits formation of the initiation complex. In cardiac pacemaker cells, kanamycin B decreases action potential amplitude, blocking slow Ca^{2+} currents and modulating outward K^+ currents. Kanamycin B also inhibits mammalian RNA splicing.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
K0054	100 mg	\$53.20
K0054	250 mg	\$132.60
K0054	1 g	\$357.30

References 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.

Morales MA, Castrillon JL, Hernandez DA. Effects of bekanamycin and dibekacin on the electrical activity of cardiac pacemaker cells. Arch Med Res. 1993 Winter;24(4):339-45. PMID: 8118157.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.