LKT Laboratories, Inc.

Amikacin Disulfate

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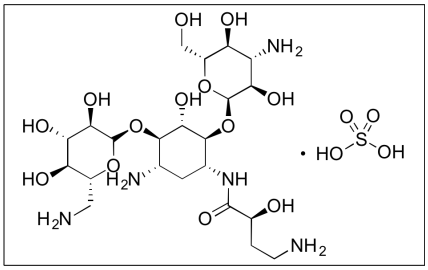
Product Information

Product ID A5132

CAS No. 39831-55-5

Chemical Name O-3-Amino-3-deoxy-α-D-glucopyranosyl-(1->6)-O- [6-amino-6-deoxy-α-D-glucopyranosyl-(1->4)]-N1- [(2S)-4-amino-2-hydroxy-1-oxobutyl]-2-deoxy-D- streptamine sulfate

Synonym Amikacin sulfate, Amikin, Biklin, Lukadin, Mikavir, Novamin, Pierami



Formula $C_{22}H_{43}N_5O_{13} \cdot 2H_2SO_4$

Formula Wt. 781.76

Melting Point 220-230°C(dec.)

Purity ≥98%

Solubility Soluble in water (50mg/mL). Insolulble in acetone and water. DMSO <1 mg/mL.

Bulk quanitites available upon request

Product ID	Size
A5132	250 mg
A5132	1 g
A5132	5 g

Store Temp Ambient

Ship Temp Ambient

Description Amikacin is an aminoglycoside antibiotic that exhibits antibacterial efficacy against gram negative bacteria. Amikacin binds the 30S ribosomal subunit, preventing translation.

References

Barza M, Scheife RT. Drug therapy reviews: Antimicrobial spectrum, pharmacology and therapeutic use of antibiotics--part 4: aminoglycosides. Am J Hosp Pharm. 1977 Jul;34(7):723-37. PMID: 407790.

Kawaguchi H. Discovery, chemistry, and activity of amikacin. J Infect Dis. 1976 Nov;134 SUPPL:S242-8. PMID: 825583.

King P, Citron DM, Griffith DC, et al. Effect of oxygen limitation on the in vitro activity of levofloxacin and other antibiotics administered by the aerosol route against Pseudomonas aeruginosa from cystic fibrosis patients. Diagn Microbiol Infect Dis. 2010 Feb;66(2):181-186. PMID: 19828274.