



LKT Laboratories, Inc.

Apramycin Sulfate

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Product Information

Product ID A6264

CAS No. 65710-07-8

Chemical Name O-4-Amino-4-deoxy- α -D-glucopyranosyl-(1 \rightarrow 8)-O- (8R)-2-amino-2,3,7-trideoxy-7-(methylamino)-D-glycero- α -D-allo-octodialdo-1,5:8,4-dipyransyl- (1 \rightarrow 4)-2-deoxy-D-streptamine

Synonym Nebramycin factor 2, EL-857, Apralan

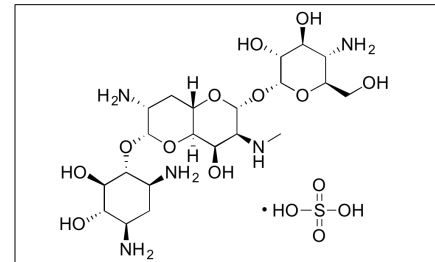
Formula C₂₁H₄₁N₅O₁₁ • H₂O₄S

Formula Wt. 637.66

Melting Point

Purity \geq 98%

Solubility Soluble in water.



Bulk quantities available upon request

| Product ID | Size |
|------------|------|
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| A6264 | 1 g |
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| A6264 | 5 g |
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Store Temp 4° C

Ship Temp Ambient

Description Apramycin is an aminoglycoside antibiotic originally produced by *Streptomyces*. Apramycin is clinically used in veterinary medicine. This compound binds 16S rRNA of the bacterial 30S ribosomal subunit, causing conformational changes in CA and GA base pairs and inhibiting RNA translocation.

References Witek MA, Conn GL. Expansion of the aminoglycoside-resistance 16S rRNA (m1A1408) methyltransferase family: Expression and functional characterization of four hypothetical enzymes of diverse bacterial origin. *Biochim Biophys Acta*. 2014 Jun 22. [Epub ahead of print]. PMID: 24963996.

Choi MJ, Lim SK, Nam HM, et al. Apramycin and gentamicin resistances in indicator and clinical *Escherichia coli* isolates from farm animals in Korea. *Foodborne Pathog Dis*. 2011 Jan;8(1):119-23. PMID: 21214385.

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