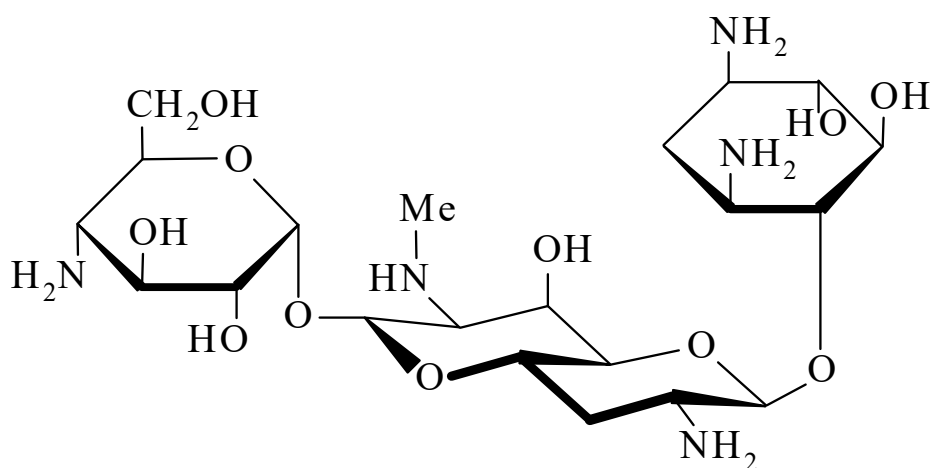




>>Entry Name: Apramycin, BAN, INN, USAN

Synonym(s): Nebramycin II. Ambylan. Apralan. Magnimix. EL 857/820. Lilly 47657



CAS Registry Number: 37321-09-8

Related CAS Registry Numbers(s): 41194-16-5

Molecular Formula: C₂₁H₄₁N₅O₁₁

Molecular Weight: 539.582

Accurate Mass: 539.28026

Percentage Composition: C 46.75%; H 7.66%; N 12.98%; O 32.62%

Biological Source: Isol. from *Streptomyces tenebrarius* and *Saccharomyces porispora hiltus*

Use/Importance: Veterinary drug shows antibiotic activity against gram-positive and -negative organisms

Physical Description: Cryst. + 1H₂O (EtOH aq.)

Melting Point: Mp 245-247°

Optical Rotation: $[\alpha]_D^{25} -164$ (c, 1 in H₂O)

Solubility: BERDY SOL: Sol. H₂O; fairly sol. MeOH; poorly sol. butanol, hexane

Calculated Log P Data: Log P -8.11 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ (H₂O) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ivn) 280 mg/kg ; BERDY HAZD : LD₅₀ (mus, ivn) 385 mg/kg

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