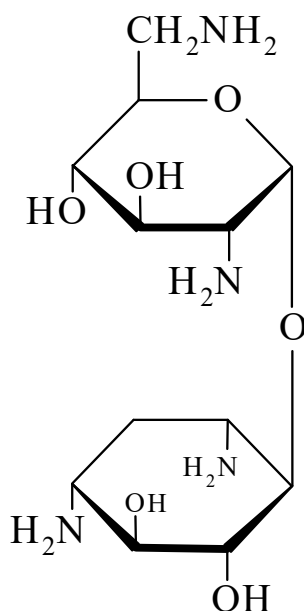




>>Entry Name: Neomycin A

Synonym(s): Neomin. Myacin. Neamine. Nebramycin factor 10. Nebramycin X. **Negamicin**₊. Dekamycin V



CAS Registry Number: 3947-65-7

Related CAS Registry Numbers(s): 1404-04-2 1405-10-3

Molecular Formula: C₁₂H₂₆N₄O₆

Molecular Weight: 322.361

Accurate Mass: 322.185236

Percentage Composition: C 44.71%; H 8.13%; N 17.38%; O 29.78%

Biological Source: Isol. from *Streptomyces fradiae*. Degradn. prod. of Neomycin B [HJZ92-F](#) and Neomycin C [CJV53-X](#)

Use/Importance: Shows relatively weak activity primarily against gram-positive organisms

Physical Description: Cryst. (H₂O or EtOH aq.)

Melting Point: Mp 225-226 dec.°

Optical Rotation: $[\alpha]_D^{25} +112.8$ (c, 1.0 in H₂O)

Other Data: Component of Neomycin, BAN, INN

Hazard & Toxicity: LD₅₀ (mus, scu) 1250 mg/kg

Rare Chemicals Library: S57389-2

>>Derivative: Hydrochloride

Physical Description: Amorph. powder

Melting Point: Mp 250-260 dec.°

Optical Rotation: $[\alpha]_D^{23} +83$ (c, 1.0 in H₂O)

>>Derivative: N-Ac

Physical Description: Cryst. (MeOH)

Melting Point: Mp 334-336°

Optical Rotation: $[\alpha]_D^{25} +87$ (c, 1.0 in H₂O)

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