

Product Datasheet

Amikacin (orb1225166)

Catalog Number	orb1225166
Category	Small Molecules
Description	A broad-spectrum antibiotic derived from KANAMYCIN. It is reno- and oto-toxic like the other aminoglycoside antibiotics.(In Vitro):Amikacin offers definite advantages for treating infections caused by organisms resistant to other aminoglycosides. Amikaci is affected by relatively few arninoglycoside-modifying enzymes. Amikacin is useful in the treatment of infections caused by Nocardia asteroides, Mycobacterium avium-intracellulare, and certain species of "rapid-growing" mycobacteria (that is, M. chelonae and M. fortuitumi).Amikacin (100-1500 μM) causes a reliable dose-dependent loss of lateral line zebrafish hair cells with a LD50 value of 453 μM.(In Vivo):Amikacin (320 mg/kg; subcutaneous injection; daily; for 10 days; male Fischer rats) treatment increases the chance of serious hearing loss in rats in vivo.
Target	ribosome
Purity	>98% (HPLC)
MW	585.6
Target Areas	30S ribosome
Solubility (25°C)	Soluble in Water
CAS Number	37517-28-5
Formula	C ₂₂ H ₄₃ N ₅ O ₁₃
SMILES	C1[C@@H]([C@H]([C@@H]([C@H]([C@@H]1NC(=O)[C@H](CCN)O)O[C@@H]2[C@@H]([C@H]([C@@H]([C@H](O2)CO)O)N)O)O)[C@@H]3[C@@H]([C@H]([C@@H]([C@H](O3)CN)O)O)O)N
Storage	Storage temperature: -20°C. Stability: ≥ 2 years

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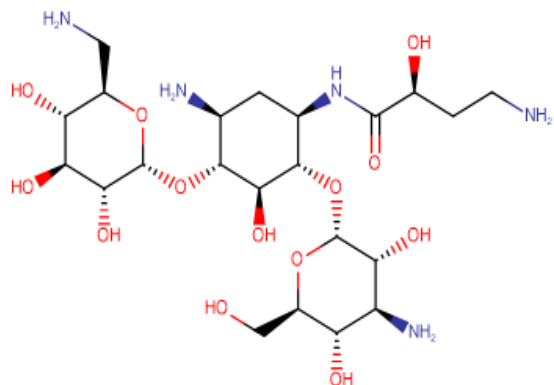
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Note For research use only

Expiration Date 12 months from date of receipt.



Chemical Structure of Amikacin.

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