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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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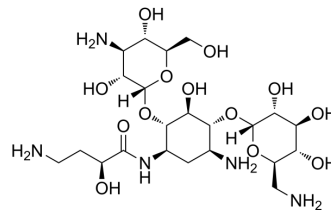
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Amikacin (Standard)

Cat. No.:	HY-B0509AR
CAS No.:	37517-28-5
Molecular Formula:	C ₂₂ H ₄₃ N ₅ O ₁₃
Molecular Weight:	585.6
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Amikacin (Standard) is the analytical standard of Amikacin. This product is intended for research and analytical applications. Amikacin (BAY 41-6551), a semisynthetic analog of kanamycin, is very active against most gram-negative bacteria including gentamicin- and tobramycin-resistant strains. Amikacin (BAY 41-6551) is ototoxic and nephrotoxic^{[1][2]}.

REFERENCES

- [1]. Farhan SM, et al. In Vitro and In Vivo Effect of Amikacin and Imipenem Combinations against Multidrug-Resistant E. coli. Trop Med Infect Dis. 2022 Oct 2;7(10):281.
- [2]. Wang YH, et al. Amikacin Suppresses Human Breast Cancer Cell MDA-MB-231 Migration and Invasion. Toxics. 2020 Nov 20;8(4):108.
- [3]. Atamer-Simsek S, et al. Antinociceptive effect of amikacin and its interaction with morphine and naloxone. Pharmacol Res. 2000 Mar;41(3):355-60.
- [4]. Ladrech S, et al. Calpain activity in the amikacin-damaged rat cochlea. J Comp Neurol. 2004 Sep 13;477(2):149-60.
- [5]. Chan K, et al. Characterization of Amikacin Drug Exposure and Nephrotoxicity in an Animal Model. Antimicrob Agents Chemother. 2020 Aug 20;64(9):e00859-20.

Caution: Product has not been fully validated for medical applications. For research use only.

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