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Part of Europa Biosite

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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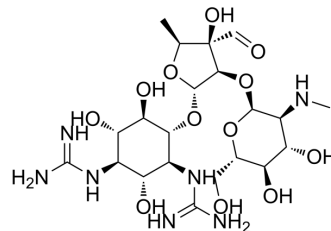
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Streptomycin (Standard)

Cat. No.:	HY-B1906R
CAS No.:	57-92-1
Molecular Formula:	C ₂₁ H ₃₉ N ₇ O ₁₂
Molecular Weight:	581.57
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Streptomycin (Standard) is the analytical standard of Streptomycin. This product is intended for research and analytical applications. Streptomycin (Agrept) is an effective antibiotic against *M. tuberculosis*, is used for the research of tuberculosis (TB). Streptomycin also is a bacteriocidal agent that can be used for the research of a number of bacterial infections. Streptomycin can bind strongly to nucleic acids, interferes and blocks protein synthesis while permitting continued RNA and DNA synthesis. Streptomycin, as a common antibiotic used in culture media, also is a blocker of stretch-activated and mechanosensitive ion channels in neurons and cardiac myocytes ^{[1][2][3]}.

REFERENCES

- [1]. J DAVIES, et al. STREPTOMYCIN, SUPPRESSION, AND THE CODE. *Proc Natl Acad Sci U S A*. 1964 May;51(5):883-90.
- [2]. Deisy M G C Rocha, et al. The Neglected Contribution of Streptomycin to the Tuberculosis Drug Resistance Problem. *Genes (Basel)*. 2021 Dec 17;12(12):2003.
- [3]. Mandeep Singh, et al. Streptomycin sulphate loaded solid lipid nanoparticles show enhanced uptake in macrophage, lower MIC in Mycobacterium and improved oral bioavailability. *Eur J Pharm Biopharm*. 2021 Mar;160:100-124.

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

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