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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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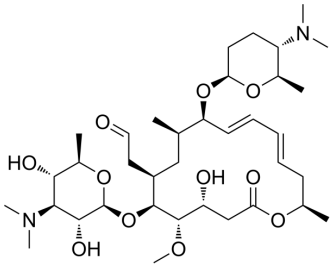
Neospiramycin I

Cat. No.:	HY-W587414
CAS No.:	70253-62-2
Molecular Formula:	$C_{36}H_{62}N_2O_{11}$
Molecular Weight:	698.88
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Neospiramycin I is a macrolide antibiotic and a derivative of Spiramycin I (HY-N7141). Neospiramycin I is effective against the macrolide-sensitive KB210 strain of S. aureus, but ineffective against the macrolide-resistant KB224 strain, with minimum inhibitory concentrations (MIC) of 3.12 and greater than 100 μg/mL, respectively; it is also effective against B. cereus, B. subtilis, M. luteus, E. coli, and K. pneumoniae, with respective MIC values of 1.56, 3.12, 3.12, 0.2, 50, and 12.5 μg/mL. Neospiramycin I binds to the ribosomes of E. coli, with an inhibitory concentration 50 (IC_{50}) of 1.2 μM. It protects mice from death in a type III S. pneumoniae infection model, with an effective dose 50 (ED_{50}) of 399.8 mg/kg[1][2].

REFERENCES

[1]. Sano H, et al. Chemical modification of spiramycins. II. Synthesis and antimicrobial activity of 4'-deoxy derivatives of neospiramycin I and their 12-(Z)-isomers. J Antibiot (Tokyo). 1984 Jul;37(7):738-49.

[2]. Sano H, et al. Chemical modification of spiramycins. I. Synthesis of the acetal derivatives of neospiramycin I. J Antibiot (Tokyo). 1983 Oct;36(10):1336-44.

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