

Apramycin

Catalog No: tcsc3070



Available Sizes

Size: 50mg

Size: 100mg

Size: 500mg

Size: 1g

Size: 5g



Specifications

CAS No:

37321-09-8

Formula:

$C_{21}H_{41}N_5O_{11}$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Nebramycin II

Observed Molecular Weight:

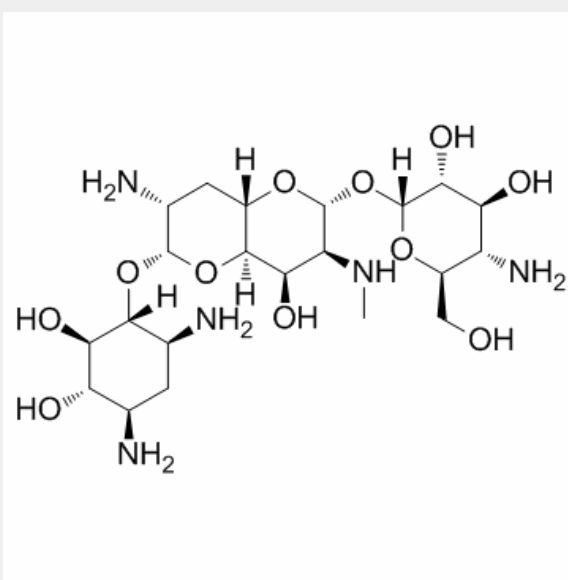
539.58

Product Description

Apramycin(Nebramycin II) is an aminoglycoside antibiotic used in veterinary medicine.

IC50 value:

Target: Apramycin stands out among aminoglycosides for its mechanism of action which is based on blocking translocation and its ability to bind also to the eukaryotic decoding site despite differences in key residues required for apramycin recognition by the bacterial target. The drug binds in the deep groove of the RNA which forms a continuously stacked helix comprising non-canonical C.A and G.A base pairs and a bulged-out adenine. The binding mode of apramycin at the human decoding-site RNA is distinct from aminoglycoside recognition of the bacterial target, suggesting a molecular basis for the actions of apramycin in eukaryotes and bacteria.



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