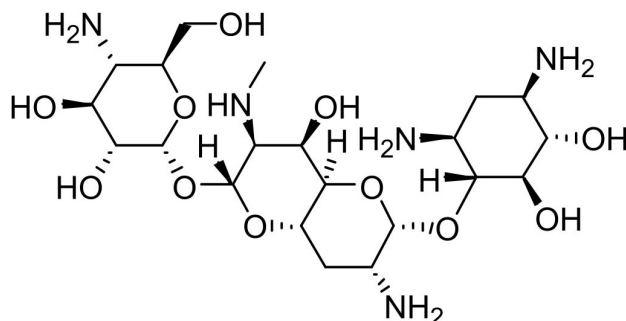


Apramycin

Code No.: BIA-A2440

Pack sizes.: 5mg, 25mg



Synonyms:

Ambylan, , Apralan, Apralin, EL 857, EL 857/820, Nebramycin II, Nebramycin factor 2

Specifications

CAS #	: 37321-09-8
Molecular Formula	: C21H41N5O11
Molecular Weight	: 539.58
Source	: -
Appearance	: Light yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Apramycin is a structurally unique broad spectrum aminoglycoside antibiotic that contains a bicyclic sugar moiety and a monosubstituted deoxystreptamine moiety. Apramycin inhibits the translocation step of bacterial protein synthesis and induces translation errors. Apramycin is marketed for veterinary use against Gram negative bacteria. Resistance to apramycin is conferred by production of ribosomal acetyltransferase.

References

1. Apramycin, a unique aminocyclitol antibiotic. O'Connor S. et al. J Org Chem 1976, 41, 2087.
2. Effects of apramycin, a novel aminoglycoside antibiotic on bacterial protein synthesis. Perzynski S. et al. Eur J Biochem 1979, 99, 623.
3. Apramycin recognition by the human ribosomal decoding site. Hermann T. et al. Blood Cells Mol Dis 2007, 38, 193.