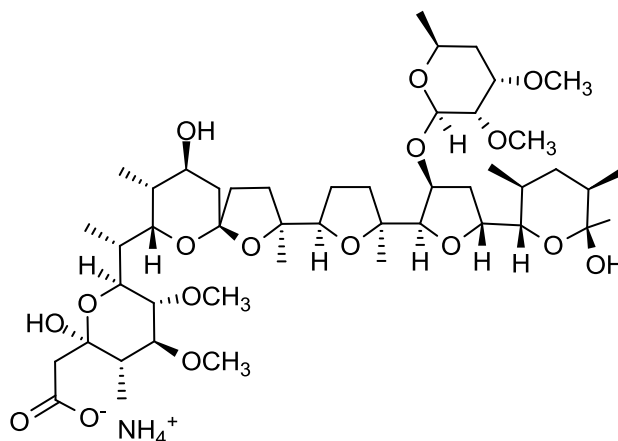


Maduramicin ammonium

Code No.: **BIA-M1542**

Pack sizes: **5 mg, 25 mg**



Synonyms : CL 259971, Maduramycin sodium

Specifications

CAS #	: 84878-61-5
Molecular Formula	: C ₄₇ H ₈₃ NO ₁₇
Molecular Weight	: 934.2
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Maduramicin ammonium is prepared from maduramicin by taking advantage of the acidic carboxylic acid which ionises and readily forms the salt in ammonium hydroxide solutions. The ammonium salt is the preferred formulation in animals to prevent coccidiosis and to promote growth. Maduramicin is also active against *Treponema* and *Cryptosporidium*. Maduramicin is an ionophore, forming complexes with monovalent cations, with a higher affinity for K⁺ than Na⁺.

References

1. Novel polyether antibiotics X-14868A, B, C, and D produced by a *Nocardia*. Discovery, fermentation, biological as well as ionophore properties and taxonomy of the producing culture. Liu C.M. et al. J. Antibiot. 1983, 36, 343.

Updated: 2 December 2014