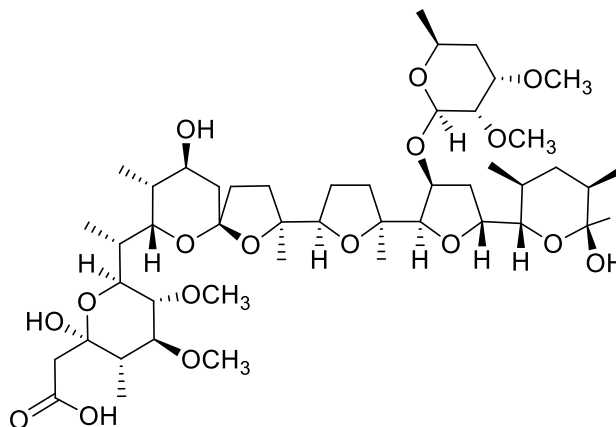


Maduramicin

Code No.: **BIA-M1308**

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



Synonyms : alpha-Maduramicin, Maduramycin, X 14868A, CL 273703, LL-C 23024-A,

Specifications

CAS #	: 79356-08-4
Molecular Formula	: C₄₇H₈₀O₁₇
Molecular Weight	: 917.1
Source	: <i>Actinomadura yunnaense</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Maduramicin is a polyether antibiotic first isolated from *Actinomadura yunnaense* (formerly *Nocardia* sp. X-14868) in 1963. Maduramicin is a broad spectrum antioocidial also active against *Treponema* and *Cryptosporidium*. Maduramicin is an ionophore, forming complexes with monovalent cations, with a higher affinity for K⁺ than Na⁺. Maduramicin is used as the ammonium salt in animals to prevent coccidiosis and to promote growth.

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.