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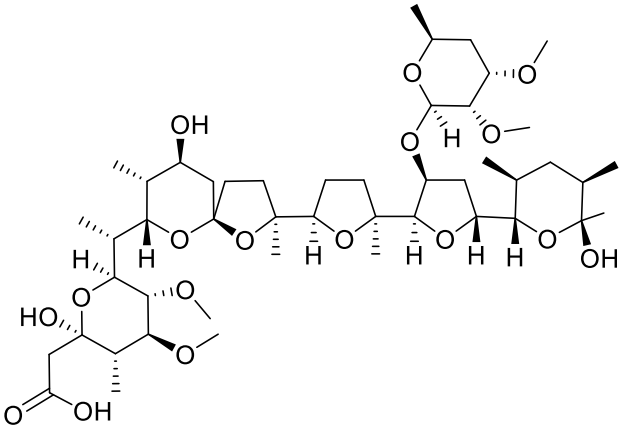
PRODUCT DATA SHEET

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	:	**$C_{47}H_{80}O_{17}$**
Molecular Weight	:	**917.1**
Source	:	***Actinomadura yunnaense***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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 anticoccidial 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.

For in vitro laboratory use only. Not for human or animal use.

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