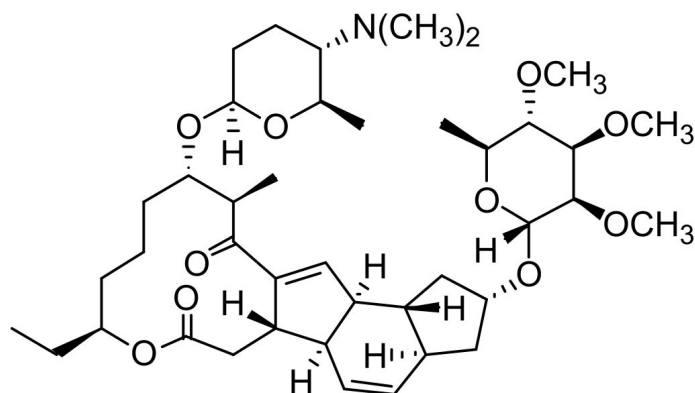


Spinosyn A

Code No.: BIA-S1337

Pack sizes.: 1mg, 5mg



Synonyms:

Lepicidin A, A 83543A, LY 232105

Specifications

CAS #	: 131929-60-7
Molecular Formula	: C₄₁H₆₅NO₁₀
Molecular Weight	: 732
Source	: -
Appearance	: White solid
Purity	: >99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Spinosyn A is the major component of a complex of unusual, hydrophobic macrocyclic lactones isolated from *Saccharopolyspora spinosa* in 1991. The 12-membered macrocyclic lactone is fused to form a rare 12-5-6-5 tetracyclic ring system, with the macrocycle and the terminal cyclopentane bearing glycosides. Spinosyn A is a potent insecticide for crop pathogens and ectoparasite control on animals. The spinosyns have a unique mechanism of action involving disruption of nicotinic acetylcholine receptors.

References

1. A 83543A-D, unique fermentation-derived tetracyclic macrolides. Kirst H.A. et al., *Tetrahedron Lett.* 1991, 32, 4839.
2. The spinosyn family of insecticides: realizing the potential of natural products research. Kirst H.A. *J. Antibiot.* 2010, 63, 101.