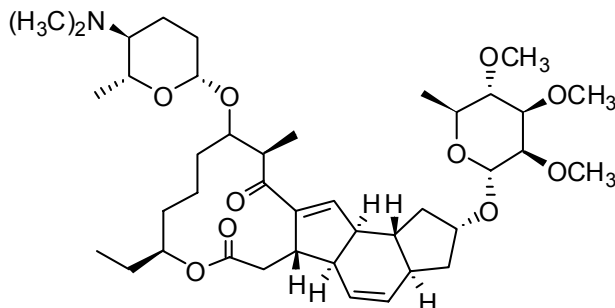


Spinosyn A

Code: **BIA-S1337**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Lepicidin A, Antibiotic A 83543A, Antibiotic LY 232105**

Specifications

CAS # : **131929-60-7**
Molecular Formula : **C₄₁H₆₅NO₁₀**
Molecular Weight : **732.0**
Source : ***Saccaropolyspora spinosa***
Appearance : **White solid**
Purity : **>99%**
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 pathogens of crops 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.