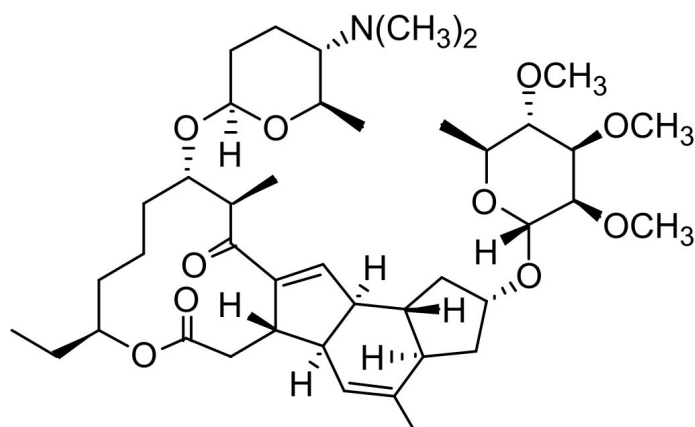


Spinosyn D

Code No.: BIA-S1338

Pack sizes.: 1mg, 5mg



Synonyms:

Lepicidin D, A 83543D

Specifications

CAS #	: 131929-63-0
Molecular Formula	: C₄₂H₆₇N₀O₁₀
Molecular Weight	: 746
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 D is the second most abundant component (comprising up to 15%) of the spinosyn fermentation complex of macrocyclic lactones. Spinosyn D is a more hydrophobic analogue, and is a potent insecticide for crop pathogens and ectoparasite control on animals, albeit less active than spinosyn A. 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.