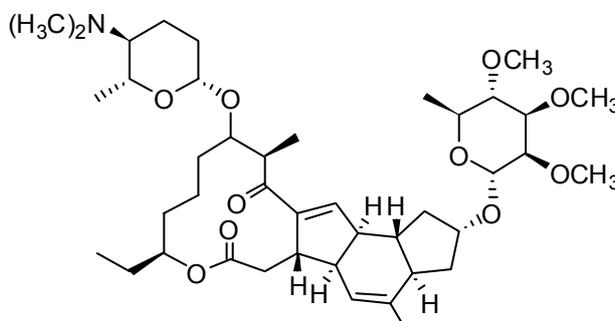


Spinosyn D

Code: **BIA-S1338**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Lepicidin D, Antibiotic A 83543D,**

Specifications

CAS # : **131929-63-0**
Molecular Formula : **C₄₂H₆₇NO₁₀**
Molecular Weight : **746.0**
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 D is the second most abundant component comprising up to 15% of the spinosyn fermentation complex. Spinosyn D is a more hydrophobic analogue and is a potent insecticide for pathogens of crops 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.A. J. Antibiot. **2010**, 63, 101.