

3'-Ethoxy-5,6-dihydrospinosyn J

## PRODUCT DATA SHEET

Code No.: BIA-E1583

Pack sizes: 1 mg, 5 mg

$$N(CH_3)_2$$

Synonyms :

## Specifications

CAS # : 187166-40-1 Molecular Formula :  $C_{42}H_{69}NO_{10}$ 

Molecular Weight : 748.0

Source : Semi-synthetic
Appearance : White solid
Purity : >95% by HPLC

Long Term Storage : -20°C

Solubility : Soluble in ethanol, methanol, DMF or DMSO.

## **Application Notes**

3'-Ethoxy-5,6-dihydrospinosyn J is the major component in the second generation spinosyn family of bio-insecticides marketed as Spinetoram. 3'-Ethoxy-5,6-dihydrospinosyn J is a semi-synthetic compound prepared by selective ethylation and hydrogenation of Spinosyn J, itself a fermentation product from a biosynthetically blocked mutant of Saccharopolyspora spinosa. As an insecticide, 3'-ethoxy-5,6-dihydrospinosyn J is considered more potent, and to have earlier onset and longer duration of action than combinations of spinosyn A and D.

## References

- 1. The spinosyn family of insecticides: realizing the potential of natural products research. Kirst H.A. J. Antibiot. 2010, 63, 101.
- Neural network-based QSAR and insecticide discovery: spinetoram. Sparks T.C. et al. J. Comput. Aided Mol. Des. 2008, 22, 393.
- 3. DE-175 (spinetoram), a new semi-synthetic spinosyn in development. Crouse G.D. et al. in Modern Crop Protection Compounds Vol. 3 (eds Kramer W. & Schirmer U.) 2007, 1013.

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