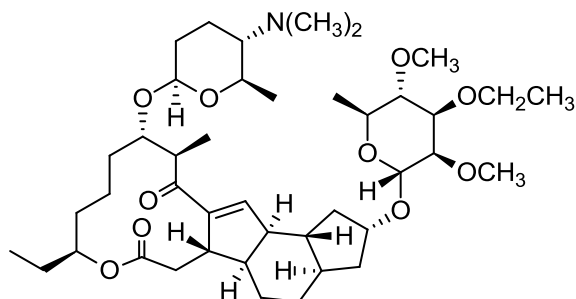


## 3'-Ethoxy-5,6-dihydrospinosyn J

Code No.: **BIA-E1583**

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



Synonyms :

### Specifications

CAS #	: 187166-40-1
Molecular Formula	: C <sub>42</sub> H <sub>69</sub> NO <sub>10</sub>
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.
2. 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.