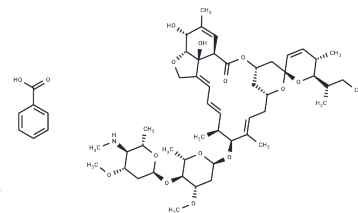


Emamectin Benzoate

Chemical Properties

CAS No. :	155569-91-8
Formula:	C ₅₆ H ₈₁ NO ₁₅
Molecular Weight:	1008.256
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Emamectin Benzoate (MK-244), by binding gamma-aminobutyric acid (GABA) receptor and glutamate-gated chloride channels disrupting nerve signals within arthropods, acts as a chloride channel activator.
Targets(IC ₅₀)	Apoptosis, Reactive Oxygen Species, GABA Receptor, Parasite
In vitro	Emamectin Benzoate stimulates the release of GABA from the synapses between nerve cells. It also additionally increasing GABA's affinity for its receptor on the post-junction membrane of muscle cells in insects and arthropods.

Solubility Information

Solubility	DMSO: 50 mg/mL (49.59 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9918 mL	4.959 mL	9.9181 mL
5 mM	0.1984 mL	0.9918 mL	1.9836 mL
10 mM	0.0992 mL	0.4959 mL	0.9918 mL
50 mM	0.0198 mL	0.0992 mL	0.1984 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Cheng X, et al. Effect of Emamectin Benzoate on Root-Knot Nematodes and Tomato Yield. PLoS One. 2015 Oct 28; 10(10):e0141235.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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