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**Product Data Sheet**

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Product Name: Emamectin Benzoate (MK-244)

Cat. No.: GC32172

**Chemical Properties**

Cas. No.

Formula

M.Wt

Solubility DMSO :  $\geq 31$  mg/mL (16.49 mM)

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Emamectin Benzoate (MK-244) works as a chloride channel activator by binding gamma aminobutyric acid (GABA) receptor and glutamate-gated chloride channels disrupting nerve signals within arthropods.

Emamectin Benzoate stimulates the release of GABA from the synapses between nerve cells and while additionally increasing GABA's affinity for its receptor on the post-junction membrane of muscle cells in insects and arthropods.

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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