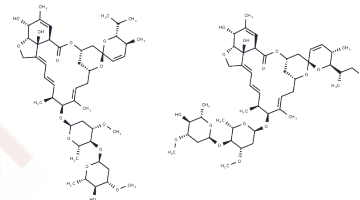


Avermectin B1

Chemical Properties

CAS No. :	71751-41-2
Formula:	C ₄₈ H ₇₂ O ₁₄
Molecular Weight:	873.09
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Avermectin B1 is served as anthelmintic and insecticide.
Targets(IC50)	Apoptosis,Reactive Oxygen Species,Antibiotic,Parasite,Autophagy,ROS

Solubility Information

Solubility	DMSO: 40 mg/mL (45.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (2.29 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1454 mL	5.7268 mL	11.4536 mL
5 mM	0.2291 mL	1.1454 mL	2.2907 mL
10 mM	0.1145 mL	0.5727 mL	1.1454 mL
50 mM	0.0229 mL	0.1145 mL	0.2291 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mogg TD, et al. Aust Vet J. 1990 Nov;67(11):399-401.

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Li B J, Wang K K, Yu Y, et al. PxRdl2 dsRNA increased the insecticidal activities of GABAR-targeting compounds against *Plutella xylostella*. *Pesticide Biochemistry and Physiology*. 2023: 105548.

Wang K, Li B, Yu Y, et al. Bacterial Rdl2 dsRNA increased the insecticidal activity of GABAR blockers and allosteric modulators against *Plutella xylostella*]]. *bioRxiv*. 2021

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