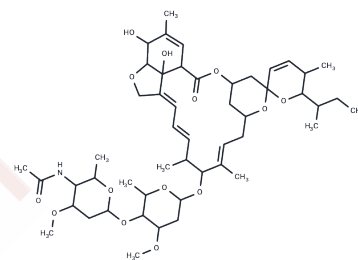


## Eprinomectin

## Chemical Properties

CAS No. :	123997-26-2
Formula:	C50H75NO14
Molecular Weight:	914.13
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	Eprinomectin (MK-397) is an avermectin with anthelmintic and insecticidal activities. Eprinomectin is a mixture of two chemical compounds, eprinomectin B1a and B1b.
Targets(IC50)	Apoptosis, Antibacterial, Parasite, Autophagy, ROS, Wnt/beta-catenin

## Solubility Information

Solubility	DMSO: 250 mg/mL (273.48 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: $< 10$ mg/mL (10.94 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (10.94 mM), Solution. <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	1.0939 mL	5.4697 mL	10.9394 mL
5 mM	0.2188 mL	1.0939 mL	2.1879 mL
10 mM	0.1094 mL	0.547 mL	1.0939 mL
50 mM	0.0219 mL	0.1094 mL	0.2188 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

Baoliang P , Yuwan W , Zhende P , et al. Pharmacokinetics of Eprinomectin in Plasma and Milk following Subcutaneous Administration to Lactating Dairy Cattle[J]. Veterinary Research Communications, 2006, 30(3):263-270.

Hamel D , Bosco A , Rinaldi L , et al. Eprinomectin pour-on (EPRINEX® Pour-on, Merial): Efficacy against gastrointestinal and pulmonary nematodes and pharmacokinetics in sheep[J]. BMC Veterinary Research, 2017, 13 (1).

Shoop W L , Egerton J R , Eary C H , et al. Eprinomectin: A novel avermectin for use as a topical endectocide for cattle[J]. International Journal for Parasitology, 1996, 26(11):1237.

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