

## Ivermectin B1a

## Chemical Properties

CAS No. : 71827-03-7

Formula: C<sub>48</sub>H<sub>74</sub>O<sub>14</sub>

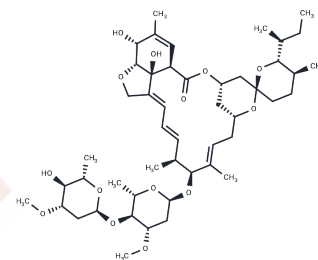
Molecular Weight: 875.09

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ivermectin B1a is the major (80%) component of commercially available ivermectin and a derivative of Avermectin B1a.
Targets(IC50)	Parasite, SARS-CoV
In vitro	Ivermectin B1a(0.3 µg/ml) is inactive, whereas in the case of the minor component, ivermectin B1b(0.3 µg/ml) produces 100% mortality of snails[1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (114.27 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: 4 mg/mL (4.57 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

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	1mg	5mg	10mg
1 mM	1.1427 mL	5.7137 mL	11.4274 mL
5 mM	0.2285 mL	1.1427 mL	2.2855 mL
10 mM	0.1143 mL	0.5714 mL	1.1427 mL
50 mM	0.0229 mL	0.1143 mL	0.2285 mL

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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

Khan Sharun, et al. Ivermectin, a New Candidate Therapeutic Against SARS-CoV-2/COVID-19. *Ann Clin Microbiol Antimicrob.* 2020 May 30;19(1):23.

Naftale Kat, et al. Ivermectin Efficacy Against Biomphalaria, Intermediate Host Snail Vectors of Schistosomiasis. *J Antibiot (Tokyo).* 2017 May;70(5):680-684.

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