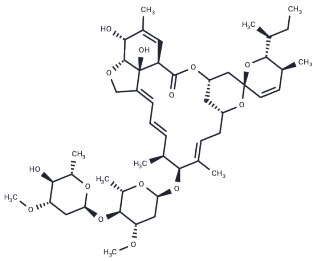
Data Sheet (Cat.No.T7605)

TargetMol

Avermectin B1a

Chemical Properties



CAS No. : 65195-55-3

Formula: C48H72O14

Molecular Weight: 873.08

Storage: 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	Avermectin B1a is a macrocyclic lactone disaccharide anthelmintic agent .
Targets(IC50)	Antibiotic,Parasite
In vitro	The binding of the glycine receptor antagonist, strychnine, to both membranes and solubilized receptor from rat spinal cord, was inhibited by avermectin B1a with Ki values of 1.3 microM and 3.6 microM, and Hill coefficients of 0.46 and 0.62, respectively[1].

Solubility Information

Solubility	DMSO: 255 mg/mL (292.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1454 mL	5.7269 mL	11.4537 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

Graham D , Pfeiffer F , Betz H . Avermectin B1a inhibits the binding of strychnine to the glycine receptor of rat spinal cord[J]. Neuroscience Letters, 1982, 29(2):173-176.

Payne G T , Soderlund D M . Activation of γ-aminobutyric acid insensitive chloride channels in mouse brain synaptic vesicles by avermectin B1a[J]. 1991, 6(4):283-292.

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