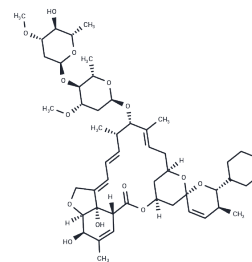


Doramectin

Chemical Properties

CAS No. :	117704-25-3
Formula:	C50H74O14
Molecular Weight:	899.11
Storage:	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	Doramectin (Dectomax) is an antiparasitic agent.
Targets(IC50)	Antibacterial,Antibiotic,Parasite
Kinase Assay	To determine which caspases are involved in apoptosis induced by taxol, caspase-3 inhibitor (DEVD-CHO), caspase-6 inhibitor (Z-VEID-FMK), caspase-8 inhibitor (Z-IETD-FMK or IETD-CHO), caspase-9 inhibitors (Z-LEHD-FMK or LEHD-CHO), and caspase-10 inhibitor (Z-AEVD-FMK) are used. These caspase inhibitors are dissolved in dimethyl sulfoxide (Me2SO); the final concentration of Me2SO is 0.1%. Cells (5×10 ⁵) are preincubated in the presence or absence of 100 μM each of these inhibitors for 3 h at 37°C then treated with or without 0.1, 0.5, and 1 μM Paclitaxel for 48 h and processed for annexin V binding assay.

Solubility Information

Solubility	DMSO: 250 mg/mL (278.05 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 (11.12 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (11.12 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	1.1122 mL	5.5611 mL	11.1221 mL
5 mM	0.2224 mL	1.1122 mL	2.2244 mL
10 mM	0.1112 mL	0.5561 mL	1.1122 mL
50 mM	0.0222 mL	0.1112 mL	0.2224 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

Davey RB, et al. Exp Appl Acarol. 2012 Apr;56(4):365-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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