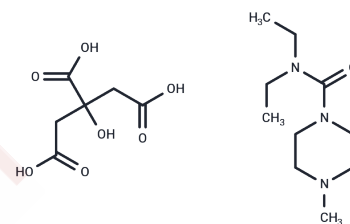


Diethylcarbamazine citrate

Chemical Properties

CAS No. :	1642-54-2
Formula:	C ₁₀ H ₂₁ N ₃ O·C ₆ H ₈ O ₇
Molecular Weight:	391.42
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	Diethylcarbamazine citrate (Caritrol) is an anthelmintic used primarily as the citrate in the treatment of filariasis, particular infestations with <i>Wucheria bancrofti</i> or <i>Loa loa</i> . It is an inhibitor of arachidonic acid metabolism in filarial microfilaria.
Targets(IC50)	Parasite, COX, Lipoxygenase

Solubility Information

Solubility	DMSO: 50 mg/mL (127.74 mM), Sonication is recommended. Ethanol: 30 mg/mL (76.64 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 (5.11 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	2.5548 mL	12.774 mL	25.548 mL
5 mM	0.511 mL	2.5548 mL	5.1096 mL
10 mM	0.2555 mL	1.2774 mL	2.5548 mL
50 mM	0.0511 mL	0.2555 mL	0.511 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

Bach MK, Brashler JR. Biochem Pharmacol. 1986 Feb 1;35(3):425-33.

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