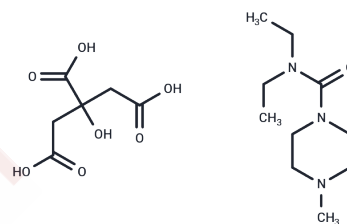


## Diethylcarbamazine citrate

## Chemical Properties

CAS No. :	1642-54-2
Formula:	C <sub>10</sub> H <sub>21</sub> N <sub>3</sub> O·C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
Molecular Weight:	391.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## 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, Lipoxxygenase

## 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)
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## 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.

## Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481