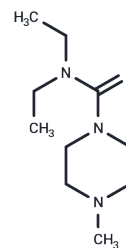


Diethylcarbamazine

Chemical Properties

CAS No. :	90-89-1
Formula:	C ₁₀ H ₂₁ N ₃ O
Molecular Weight:	199.29
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, an anthelmintic, is used primarily as the citrate in the treatment of filariasis, particularly infestations with Loa loa or Wucheria bancrofti.
Targets(IC50)	Others,Parasite

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0178 mL	25.0891 mL	50.1781 mL
5 mM	1.0036 mL	5.0178 mL	10.0356 mL
10 mM	0.5018 mL	2.5089 mL	5.0178 mL
50 mM	0.1004 mL	0.5018 mL	1.0036 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

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- Siram K, Chellan VR, Natarajan T, Krishnamoorthy B, Mohamed Ebrahim HR, Karanam V, Muthuswamy SS, Ranganathan HP. Solid lipid nanoparticles of diethylcarbamazine citrate for enhanced delivery to the lymphatics: in vitro and in vivo evaluation. *Expert Opin Drug Deliv*. 2014 Sep;11(9):1351-65. doi: 10.1517/17425247.2014.915310. Epub 2014 May 21. PubMed PMID: 24847779.
- Awadzi K, Opoku NO, Attah SK, Lazdins-Helds JK, Kuesel AC. Diagnosis of *O. volvulus* infection via skin exposure to diethylcarbamazine: clinical evaluation of a transdermal delivery technology-based patch. *Parasit Vectors*. 2015 Oct 9;8:515. doi: 10.1186/s13071-015-1122-9. PubMed PMID: 26452723; PubMed Central PMCID: PMC4598973.
- Schmidt MS, King CL, Thomsen EK, Siba PM, Sanuku N, Fleckenstein L. Liquid chromatography-mass spectrometry analysis of diethylcarbamazine in human plasma for clinical pharmacokinetic studies. *J Pharm Biomed Anal*. 2014 Sep;98:307-10. doi: 10.1016/j.jpba.2014.05.016. Epub 2014 May 22. PubMed PMID: 24975211.

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