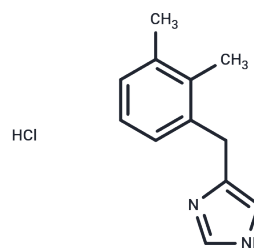


Detomidine hydrochloride

Chemical Properties

CAS No. :	90038-01-0
Formula:	C ₁₂ H ₁₄ N ₂ ·HCl
Molecular Weight:	222.71
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	Detomidine hydrochloride (MPV-253 All) produce dose-dependent sedative and analgesic effects, mediated by activation of α_2 catecholamine receptors.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	Ethanol: 42 mg/mL (188.59 mM),Sonication is recommended. DMSO: 65 mg/mL (291.86 mM),Sonication is recommended. H2O: 41 mg/mL (184.1 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 (8.98 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	4.4901 mL	22.4507 mL	44.9014 mL
5 mM	0.898 mL	4.4901 mL	8.9803 mL
10 mM	0.449 mL	2.2451 mL	4.4901 mL
50 mM	0.0898 mL	0.449 mL	0.898 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

Sleeman JM, Carter W, Tobin T, Ramsay EC. J Zoo Wildl Med. 1997 Jun;28(2):158-65.
Skarda RT, Muir WW 3rd. Am J Vet Res. 1994 May;55(5):670-80.

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