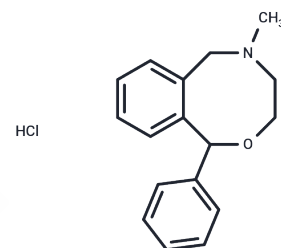


## Nefopam hydrochloride

## Chemical Properties

CAS No. :	23327-57-3
Formula:	C <sub>17</sub> H <sub>20</sub> ClNO
Molecular Weight:	289.8
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	Nefopam hydrochloride (Nefopam HCl) is the hydrochloride salt form of nefopam, a centrally-acting, non-opioid benzoxazocine with analgesic activity.
Targets(IC50)	Sodium Channel,Wnt/beta-catenin
In vitro	The mechanism of action through which nefopam exerts its analgesic effects is, as of yet, largely unknown but may involve inhibition of serotonin, dopamine and noradrenaline reuptake.

## Solubility Information

Solubility	DMSO: 4.62 mg/mL (15.94 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: 1 mg/mL (3.45 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.4507 mL	17.2533 mL	34.5066 mL
5 mM	0.6901 mL	3.4507 mL	6.9013 mL
10 mM	0.3451 mL	1.7253 mL	3.4507 mL
50 mM	0.069 mL	0.3451 mL	0.6901 mL

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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

M. S. Evans<sup>1</sup>, et al, *IBrJ Anaesth*, 2008, 101(5), 610-617.

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