

## Adiphenine hydrochloride

## Chemical Properties

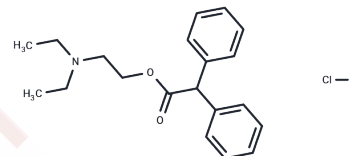
CAS No. : 50-42-0

Formula: C<sub>20</sub>H<sub>25</sub>NO<sub>2</sub>·HCl

Molecular Weight: 347.88

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	Adiphenine hydrochloride (Patrovina), a nicotinic receptor inhibitor, can be used as an antispasmodic drug.
Targets(IC50)	AChR

## Solubility Information

Solubility	DMSO: 50 mg/mL (143.73 mM),Sonication is recommended. H <sub>2</sub> O: 64 mg/mL (183.97 mM),Sonication is recommended. Ethanol: 15 mg/mL (43.12 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: 2.5 mg/mL (7.19 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	2.8746 mL	14.3728 mL	28.7455 mL
5 mM	0.5749 mL	2.8746 mL	5.7491 mL
10 mM	0.2875 mL	1.4373 mL	2.8746 mL
50 mM	0.0575 mL	0.2875 mL	0.5749 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

Spitzmaul G, et al. Br J Pharmacol. 2009 Jul;157(5):804-17.

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