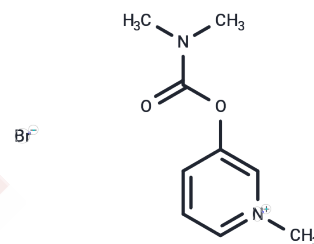


## Pyridostigmine bromide

## Chemical Properties

CAS No. :	101-26-8
Formula:	C <sub>9</sub> H <sub>13</sub> BrN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	261.12
Storage:	Keep away from moisture Pure form: -20°C for 3 years   In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Pyridostigmine bromide (Mestinon) is a cholinesterase inhibitor with a slightly longer duration of action than NEOSTIGMINE. It is used in the treatment of myasthenia gravis and to reverse the actions of muscle relaxants.
Targets(IC50)	Cholinesterase (ChE)

## Solubility Information

Solubility	H <sub>2</sub> O: 48 mg/mL (183.82 mM), Sonication is recommended. Ethanol: 49 mg/mL (187.65 mM), Sonication is recommended. DMSO: 50 mg/mL (191.48 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 (7.66 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	3.8297 mL	19.1483 mL	38.2966 mL
5 mM	0.7659 mL	3.8297 mL	7.6593 mL
10 mM	0.383 mL	1.9148 mL	3.8297 mL
50 mM	0.0766 mL	0.383 mL	0.7659 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

Sinton CM, et al. Toxicol Appl Pharmacol. 2000 May 15;165(1):99-105.

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