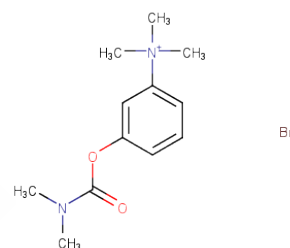


## Neostigmine bromide

## Chemical Properties

CAS No. :	114-80-7
Formula:	C <sub>12</sub> H <sub>19</sub> BrN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	303.2
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	Neostigmine bromide is a cholinesterase inhibitor used in the treatment of myasthenia gravis and to reverse the effects of muscle relaxants such as gallamine and tubocurarine. Neostigmine, unlike PHYSOSTIGMINE, does not cross the blood-brain barrier.
Targets(IC50)	Cholinesterase (ChE)

## Solubility Information

Solubility	DMSO: 38 mg/mL (125.33 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 (6.6 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	3.2982 mL	16.4908 mL	32.9815 mL
5 mM	0.6596 mL	3.2982 mL	6.5963 mL
10 mM	0.3298 mL	1.6491 mL	3.2982 mL
50 mM	0.066 mL	0.3298 mL	0.6596 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

Trevisani GT, et al. Dis Colon Rectum. 2000 May;43(5):599-603.

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