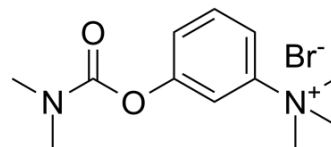


## Neostigmine Bromide

Cat. No.:	HY-B0423
CAS No.:	114-80-7
Molecular Formula:	C <sub>12</sub> H <sub>19</sub> BrN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	303.2
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (329.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.25 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.25 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.25 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	<p>Neostigmine Bromide is a cholinesterase inhibitor used in the treatment of myasthenia gravis. Target: Cholinesterase</p> <p>Neostigmine is a parasympathomimetic that acts as a reversible acetylcholinesterase inhibitor. Neostigmine enhances excitatory parasympathetic activity by competing with acetylcholine for attachment to acetylcholinesterase at sites of cholinergic transmission and enhancing cholinergic action. Neostigmine is a safe and effective treatment for acute colonic pseudo-obstruction [1].</p>
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### REFERENCES

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[1]. Trevisani, G.T., N.H. Hyman, and J.M. Church, Neostigmine: safe and effective treatment for acute colonic pseudo-obstruction. Dis Colon Rectum, 2000. 43(5): p. 599-603.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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