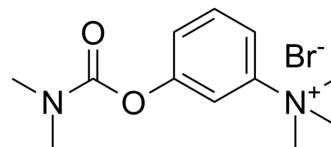


Neostigmine Bromide

Cat. No.:	HY-B0423
CAS No.:	114-80-7
Molecular Formula:	C ₁₂ H ₁₉ BrN ₂ O ₂
Molecular Weight:	303.2
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (329.82 mM; Need ultrasonic)
H₂O : 100 mg/mL (329.82 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (329.82 mM); Clear solution; Need ultrasonic
- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Neostigmine Bromide is a cholinesterase inhibitor used in the treatment of myasthenia gravis. Target: Cholinesterase. 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].

REFERENCES

[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.

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

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