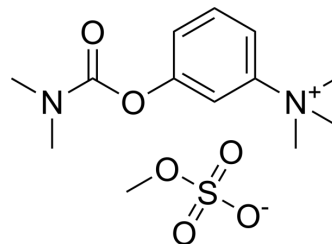


Neostigmine methyl sulfate

Cat. No.:	HY-B1206
CAS No.:	51-60-5
Molecular Formula:	C ₁₃ H ₂₂ N ₂ O ₆ S
Molecular Weight:	334.39
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

H₂O : 100 mg/mL (299.05 mM; Need ultrasonic)
 DMSO : ≥ 100 mg/mL (299.05 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.9905 mL	14.9526 mL	29.9052 mL
	5 mM		0.5981 mL	2.9905 mL	5.9810 mL
	10 mM		0.2991 mL	1.4953 mL	2.9905 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 (299.05 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 (7.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Neostigmine methyl sulfate is a reversible inhibitor of acetylcholinesterase, can not cross the blood-brain barrier.

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

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