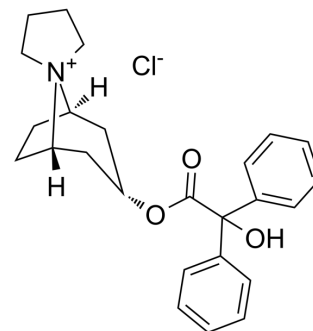


## Trospium chloride

Cat. No.:	HY-B0461
CAS No.:	10405-02-4
Molecular Formula:	C <sub>25</sub> H <sub>30</sub> ClNO <sub>3</sub>
Molecular Weight:	427.96
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : ≥ 100 mg/mL (233.67 mM) DMSO : 33.33 mg/mL (77.88 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	2.3367 mL	11.6833 mL	23.3667 mL
		5 mM	0.4673 mL	2.3367 mL	4.6733 mL
		10 mM	0.2337 mL	1.1683 mL	2.3367 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (233.67 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.84 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.84 mM); Clear solution				
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.84 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Trospium chloride is an orally active, specific and competitive antagonist of muscarinic cholinergic receptors (mAChRs), with antimuscarinic activity. Trospium chloride binds to muscarinic receptors M1, M2 and M3 with high affinity, but not nicotinic, cholinergic receptors <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	mAChRs <sup>[1][2]</sup>

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## REFERENCES

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- [1]. David RP Guay. Trosipium chloride: an update on a quaternary anticholinergic for treatment of urge urinary incontinence. Ther Clin Risk Manag. 2005 Jun; 1(2): 157–167.
- [2]. Eric S Rovner, et al. Trosipium chloride in the management of overactive bladder. Drugs. 2004;64(21):2433-46.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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