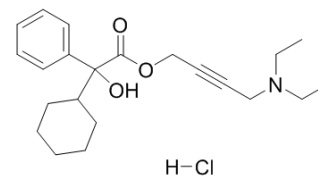


Oxybutynin chloride

Cat. No.:	HY-B0267A		
CAS No.:	1508-65-2		
Molecular Formula:	C ₂₂ H ₃₂ ClNO ₃		
Molecular Weight:	393.95		
Target:	mAChR; Potassium Channel		
Pathway:	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (253.84 mM)
 H₂O : 33.33 mg/mL (84.60 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5384 mL	12.6920 mL	25.3839 mL
	5 mM	0.5077 mL	2.5384 mL	5.0768 mL
	10 mM	0.2538 mL	1.2692 mL	2.5384 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 (253.84 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 (6.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxybutynin chloride is an anticholinergic agent, which inhibits vascular K_v channels in a concentration-dependent manner, with an IC₅₀ of 11.51 μM^[1].

REFERENCES

[1]. Li H, The anticholinergic drug oxybutynin inhibits voltage-dependent K⁺ channels in coronary arterial smooth muscle cells. Clin Exp Pharmacol Physiol. 2019 Nov;46(11):1030-1036.

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

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