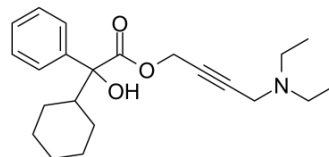


## Oxybutynin

<b>Cat. No.:</b>	HY-B0267		
<b>CAS No.:</b>	5633-20-5		
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>31</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	357.49		
<b>Target:</b>	mAChR; Potassium Channel		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel		
<b>Storage:</b>	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 (279.73 mM; Need ultrasonic)  
 H<sub>2</sub>O : ≥ 50 mg/mL (139.86 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.7973 mL	13.9864 mL	27.9728 mL
	5 mM		0.5595 mL	2.7973 mL	5.5946 mL
	10 mM		0.2797 mL	1.3986 mL	2.7973 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.08 mg/mL (5.82 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.82 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Oxybutynin is an anticholinergic agent, which inhibits vascular K<sub>v</sub> channels in a concentration-dependent manner, with an IC<sub>50</sub> of 11.51 μM<sup>[1]</sup>.

### REFERENCES

---

[1]. Li H, The anticholinergic drug oxybutynin inhibits voltage-dependent K<sup>+</sup> 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA