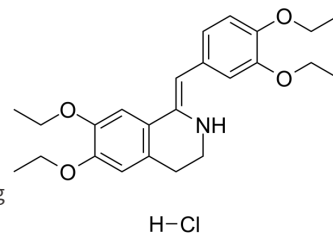


## Drotaverine hydrochloride

<b>Cat. No.:</b>	HY-108974		
<b>CAS No.:</b>	985-12-6		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>32</sub> ClNO <sub>4</sub>		
<b>Molecular Weight:</b>	433.97		
<b>Target:</b>	Phosphodiesterase (PDE); Calcium Channel		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling		
<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

H<sub>2</sub>O : 100 mg/mL (230.43 mM; Need ultrasonic)  
 DMSO : 62.5 mg/mL (144.02 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3043 mL	11.5215 mL	23.0431 mL
	5 mM	0.4609 mL	2.3043 mL	4.6086 mL
	10 mM	0.2304 mL	1.1522 mL	2.3043 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 (4.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.79 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.79 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Drotaverine (hydrochloride) is a type 4 cyclic nucleotide phosphodiesterase (PDE4) inhibitor and an L-type voltage-dependent calcium channel (L-VDCC) blocker, blocks the degradation of 3',5'-cyclic adenosine monophosphate. Drotaverine (hydrochloride) exhibits in vivo antispasmodic efficacy without anticholinergic effects.

### REFERENCES

**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