Cyclopentolate hydrochloride

Cat. No.:	HY-B1621A	~
CAS No.:	5870-29-1	
Molecular Formula:	C ₁₇ H ₂₆ CINO ₃	
Molecular Weight:	327.85	\wedge \downarrow \circ \wedge
Target:	mAChR	OH N
Pathway:	GPCR/G Protein; Neuronal Signaling	0
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)	H–Cl

SOLVENT & SOLUBILITY

1 mM	3.0502 mL	15.2509 mL	30 5018 ml		
			50.5010 me		
5 mM	0.6100 mL	3.0502 mL	6.1004 mL		
10 mM	0.3050 mL	1.5251 mL	3.0502 mL		
Please refer to the solubility information to select the appropriate solvent.					
s:	10 mM o the solubility information to select the ap solvent one by one: PBS : 100 mg/mL (305.02 mM); Clear solution; No	10 mM 0.3050 mL o the solubility information to select the appropriate solvent. solvent one by one: PBS : 100 mg/mL (305.02 mM); Clear solution; Need ultrasonic	10 mM 0.3050 mL 1.5251 mL o the solubility information to select the appropriate solvent. solvent one by one: PBS : 100 mg/mL (305.02 mM); Clear solution; Need ultrasonic		

DIOLOGICAL ACTIV			
Description	Cyclopentolate (DL-Cyclopentolate) hydrochloride is an Atropine-like muscarinic receptors antagonist with a pK _B value of 7.8 (on the circular ciliary muscle). Cyclopentolate hydrochloride is an anti-muscarinic agent commonly used in the ophthalmologic practice ^{[1][2]} .		
In Vivo	Survival in rats pretreated w MCE has not independently	rith cyclopentolate (20 mg/kg) is 90% ^[3] . confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Eighty Sprague-Dawley rats (acute, lethal organophosphate pesticide (OP) poisoning model) ^[3]	
	Dosage:	20 mg/kg (Ophthalmic cyclopentolate)	

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Administration:	i.p.
Result:	Survival in rats pretreated with ophthalmic cyclopentolate (20 mg/kg) is 90%.

REFERENCES

[1]. Öner V, Bulut A, Öter K. The effect of topical anti-muscarinic agents on subfoveal choroidal thickness in healthy adults. Eye (Lond). 2016;30(7):925-928.

[2]. Ishikawa H, DeSantis L, Patil PN. Selectivity of muscarinic agonists including (+/-)-aceclidine and antimuscarinics on the human intraocular muscles. J Ocul Pharmacol Ther. 1998;14(4):363-373.

[3]. Öner V, Bulut A, Öter K. The effect of topical anti-muscarinic agents on subfoveal choroidal thickness in healthy adults. Eye (Lond). 2016;30(7):925-928.

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

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