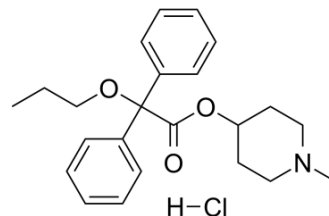


Propiverine hydrochloride

Cat. No.:	HY-116408A
CAS No.:	54556-98-8
Molecular Formula:	C ₂₃ H ₃₀ ClNO ₃
Molecular Weight:	403.94
Target:	mAChR; Calcium Channel
Pathway:	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Propiverine hydrochloride is a bladder spasmolytic with calcium antagonistic and anticholinergic properties. Propiverine hydrochloride can be used for the research of overactive bladder and urinary incontinence ^{[1][2]} .
In Vitro	Propiverine (10-3000 nM) inhibits the specific binding of [³ H]NMS, with K _i s of 339, 193 and 497 nM in the bladder, submaxillary gland and heart of mice respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Propiverine (0.5 mg/day; p.o. once daily for 2 weeks) significantly increases UBP and LPP during passive intravesical pressure elevation, and also increases plasma norepinephrine and epinephrine levels in rats ^[1] . Propiverine (0.01-1 mg/kg; i.v.) decreases the UBP and totally suppresses the sneeze reflex at the dose of 1 mg/kg in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Female adult Sprague-Dawley rats (250-270 g) ^[1]
Dosage:	5 mg dissolved in distilled water (0.5 mL)
Administration:	P.o. once daily for 2 weeks
Result:	Increased urethral baseline pressure (UBP) and leak-point pressure (LPP) significantly. Increased plasma epinephrine and norepinephrine levels. No significant changes were observed in body weight.

REFERENCES

[1]. Kitta T, et, al. Effects of propiverine hydrochloride, an anticholinergic agent, on urethral continence mechanisms and plasma catecholamine concentration in rats. *Int Urogynecol J.* 2013 Apr; 24(4): 683-8.

[2]. Ito Y, et, al. Muscarinic Receptor Binding and Plasma Drug Concentration after the Oral Administration of Propiverine in Mice. *Low Urin Tract Symptoms.* 2010 Apr; 2(1):43-9.

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

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