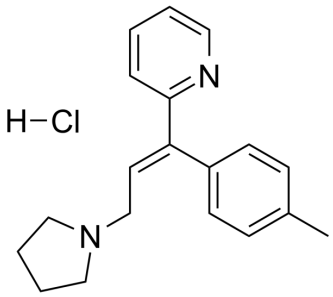
Triprolidine hydrochloride

Cat. No.:	HY-B1808A
CAS No.:	550-70-9
Molecular Formula:	$C_{19}H_{23}ClN_2$
Molecular Weight:	314.85
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Triprolidine hydrochloride is an orally active histamine H1 antagonist. Triprolidine hydrochloride has the function of spinal cord motor and sensory block. Triprolidine hydrochloride can be used for the research of allergic rhinitis[1][2][3].
IC_{50} & Target	H_1 Receptor
In Vitro	Triprolidine hydrochloride (maturing human dendritic cells) can antagonist histamine H1 and decreases the expression of CD45[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Triprolidine hydrochloride (292.81-1467.20 μg/kg; i.p.; Male Sprague-Dawley rat) produces a dose-dependent effect of spinal motor and sensory block in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rat (300-350 g)[2]
Dosage:	292.81, 488.02, 733.60, 1098.83 and 1467.20 μg/kg
Administration:	Intrathecal injection
Result:	Elicited a dose-dependent spinal block.

REFERENCES

[1]. Szeberényi JB, et, al. Inhibition of effects of endogenously synthesized histamine disturbs in vitro human dendritic cell differentiation. Immunol Lett. 2001 Apr 2;76(3):175-82.

[2]. Tzeng JI, et, al. Spinal sensory and motor blockade by intrathecal doxylamine and triprolidine in rats. J Pharm Pharmacol. 2018 Dec;70(12):1654-1661.

[3]. Deal DL, Chandrasurin P, Shockcor J, Minick DJ, Findlay JW, McNulty MJ. Disposition and metabolism of triprolidine in mice. Drug Metab Dispos. 1992 Nov-Dec;20(6):920-7.

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

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