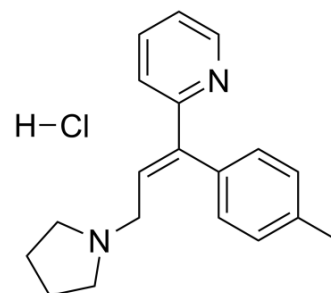


Triprolidine hydrochloride

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, a first-generation antihistamine, is an orally active histamine H ₁ antagonist. Triprolidine hydrochloride can be used for the research of allergic rhinitis. Triprolidine hydrochloride exhibits spinal motor and sensory block in rats ^{[1][2][3]} .									
IC₅₀ & Target	H ₁ Receptor									
In Vivo	<p>Triprolidine hydrochloride (292.81-1467.20 µg/kg; intrathecal injection) produces a dose-dependent effect of spinal motor and sensory block in rats^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague-Dawley rat (300-350 g)^[3]</td> </tr> <tr> <td>Dosage:</td> <td>292.81 µg/kg, 488.02 µg/kg, 733.60µg/kg, 1098.83 µg/kg, 1467.20 µg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intrathecal injection</td> </tr> <tr> <td>Result:</td> <td>Elicited a dose-dependent spinal block.</td> </tr> </table>		Animal Model:	Male Sprague-Dawley rat (300-350 g) ^[3]	Dosage:	292.81 µg/kg, 488.02 µg/kg, 733.60µg/kg, 1098.83 µg/kg, 1467.20 µg/kg	Administration:	Intrathecal injection	Result:	Elicited a dose-dependent spinal block.
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REFERENCES

- [1]. K J Simons, et al. An investigation of the H₁-receptor antagonist triprolidine: pharmacokinetics and antihistaminic effects. *J Allergy Clin Immunol.* 1986 Feb;77(2):326-30.
- [2]. D L Deal, et al. Disposition and metabolism of triprolidine in mice. *Drug Metab Dispos.* Nov-Dec 1992;20(6):920-7.
- [3]. Jann-Inn Tzeng, et al. Spinal sensory and motor blockade by intrathecal doxylamine and triprolidine in rats. *J Pharm Pharmacol.* 2018 Dec;70(12):1654-1661.

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

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