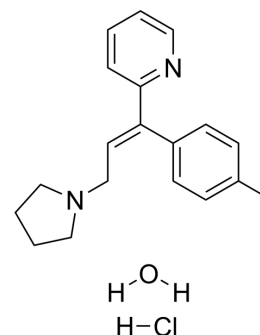


Tripolidine hydrochloride monohydrate

Cat. No.:	HY-B1301
CAS No.:	6138-79-0
Molecular Formula:	C ₁₉ H ₂₅ ClN ₂ O
Molecular Weight:	332.87
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (300.42 mM; Need ultrasonic)					
	H ₂ O : 100 mg/mL (300.42 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.0042 mL	15.0209 mL	30.0418 mL
5 mM			0.6008 mL	3.0042 mL	6.0084 mL	
10 mM		0.3004 mL	1.5021 mL	3.0042 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (300.42 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.51 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.51 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.51 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tripolidine hydrochloride monohydrate, a first-generation antihistamine, is an oral active histamine H ₁ antagonist. Tripolidine hydrochloride monohydrate can be used for the research of allergic rhinitis. Tripolidine hydrochloride monohydrate exhibits spinal motor and sensory block in rats ^{[1][2][3]} .
IC₅₀ & Target	H ₁ Receptor

In Vivo

Triprolidine hydrochloride monohydrate (292.81-1467.20 µg/kg; intrathecal injection) produces a dose-dependent effect of spinal motor and sensory block in rats^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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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