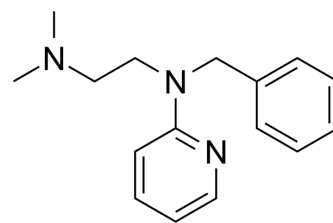


Tripelennamine hydrochloride

Cat. No.:	HY-17428
CAS No.:	154-69-8
Molecular Formula:	C ₁₆ H ₂₂ ClN ₃
Molecular Weight:	291.82
Target:	Histamine Receptor; Endogenous Metabolite
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



H-Cl

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (342.68 mM; Need ultrasonic)
DMSO : 25 mg/mL (85.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.4268 mL	17.1338 mL	34.2677 mL
	5 mM		0.6854 mL	3.4268 mL	6.8535 mL
	10 mM		0.3427 mL	1.7134 mL	3.4268 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 33.33 mg/mL (114.21 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (8.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.57 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tripelennamine hydrochloride, an ethylenediamine derivative, is a potent histamine H₁-receptor antagonist. Tripelennamine hydrochloride lessens the allergic response of the organism caused by histamine. Tripelennamine hydrochloride can be used for the research of rhinitis, conjunctivitis, and allergic and anaphylactic reactions^{[1][2][3]}.

IC₅₀ & Target

H₁ Receptor

REFERENCES

- [1]. Manohar M, et al. H1-receptor antagonist, tripeleppamine, does not affect arterial hypoxemia in exercising Thoroughbreds. *J Appl Physiol*. 2002 Apr;92(4):1515-23.
- [2]. Wasfi IA, et al. Comparative disposition of tripeleppamine in horses and camels after intravenous administration. *J Vet Pharmacol Ther*. 2000 Jun;23(3):145-52.
- [3]. Yeh SY, et al. The pharmacokinetics of pentazocine and tripeleppamine. *Clin Pharmacol Ther*. 1986 Jun;39(6):669-76.
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Caution: Product has not been fully validated for medical applications. For research use only.

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