Data Sheet (Cat.No.T1269)

TargetMol

Tripelennamine hydrochloride

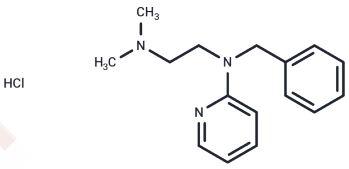
Chemical Properties

CAS No. : 154-69-8

Formula: C16H21N3·HCl

Molecular Weight: 291.82

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tripelennamine hydrochloride (Pyribenzamine hydrochloride) is a histamine H1 antagonist with low sedative action but frequent gastrointestinal irritation.
Targets(IC50)	Endogenous Metabolite,Histamine Receptor
In vitro	In equines, intravenous administration of Tripelennamine HCl (0.5 mg/kg) significantly elevates standing mixed venous blood oxygen tension and hemoglobin-O2 saturation while increasing oxygen content in both arterial and mixed venous blood, leading to central nervous system stimulation, resulting in heightened alertness and anxiety.
In vivo	In both human and rabbit liver microsomes, Tripelennamine inhibits the glucuronidation of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP).

Solubility Information

Solubility	H2O: 50 mg/mL (171.34 mM),Sonication is recommended. DMSO: 13 mg/mL (44.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.85 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0685 mL	0.3427 mL	0.6854 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Styczynski PB, et al. Chem Res Toxicol, 1993, 6(6), 846-851.
Tardioli, S, et al. Journal of Raman Spectroscopy, 2011, 42 (5), 12016-1024.
Manohar M, et al. J Appl Physiol, 2002, 92(4), 1515-1523.
Wasfi IA, et al. J Vet Pharmacol Ther, 2000, 23(3), 145-152.
Shannon HE, et al. Pharmacol Biochem Behav, 1982, 17(4), 789-795.