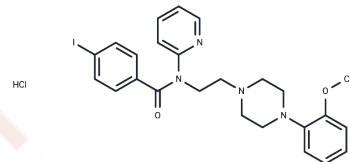


## p-MPPI hydrochloride

## Chemical Properties

CAS No. :	220643-77-6
Formula:	C <sub>25</sub> H <sub>28</sub> ClIN <sub>4</sub> O <sub>2</sub>
Molecular Weight:	578.87
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	p-MPPI hydrochloride is a selective 5-HT <sub>1A</sub> receptor antagonist with antidepressant and anxiolytic-like effects.
Targets(IC <sub>50</sub> )	5-HT Receptor
In vivo	pre-treatment with p-MPPI (5 mg/kg intraperitoneal (i.p.)) 30 min before 8-OH-DPAT (0.375 mg/kg subcutaneously (s.c.)) reduced the effect of 8-OH-DPAT on waking and REM sleep. Also, p-MPPI (5 and 10 mg/kg i.p.) reduced the effect of 8-OH-DPAT on locomotion and partially or completely antagonized hindlimb abduction and flat body posture. No overt behavioural change was produced by p-MPPI alone. Thus, p-MPPI behaved as a true 5-HT(1A) antagonist.
Animal Research	Animal Model:Adult male Swiss Webster mice (aged 8-9 weeks). Dosage:0.5, 1.5, 4.5 mg/kg. Administration:i.p.

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (47.51 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: 1 mg/mL (1.73 mM),Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	1.7275 mL	8.6375 mL	17.275 mL
5 mM	0.3455 mL	1.7275 mL	3.455 mL
10 mM	0.1728 mL	0.8638 mL	1.7275 mL
50 mM	0.0346 mL	0.1728 mL	0.3455 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

Sørensen E, et al. The selective 5-HT(1A) receptor antagonist p-MPPI antagonizes sleep--waking and behavioural effects of 8-OH-DPAT in rats. *Behav Brain Res.* 2001 Jun;121(1-2):181-7.

Cao BJ, et al. Anxiolytic-like profile of p-MPPI, a novel 5HT1A receptor antagonist, in the murine elevated plus-maze. *Psychopharmacology (Berl).* 1997 Feb;129(4):365-71.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481