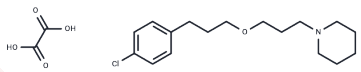
Data Sheet (Cat.No.T12491)

TargetMol

Pitolisant oxalate

Chemical Properties



CAS No. : 362665-57-4

Formula: C19H28ClNO5

Molecular Weight: 385.88

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	Pitolisant oxalate is a potent and selective nonimidazole inverse agonist of the recombinant human histamine H3 receptor, exhibiting a Ki of 0.16 nM.
Targets(IC50)	Others,Histamine Receptor
In vitro	Pitolisant behaves as a competitive antagonist with a Ki value of 0.16 nM and as an inverse agonist with an EC50 value of 1.5 nM and an intrinsic activity ~50% higher than that of ciproxifan.
In vivo	Administering Pitolisant at a single dose of 10 mg/kg 30 minutes before a 2 mg/kg b.w. dose of Olanzapine significantly affects immobility time in the FST. This drug sequence in mice significantly increases immobility duration compared to the control group in the FST and also decreases locomotor activity [3].

Solubility Information

Solubility	DMSO: 50 mg/mL (129.57 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: 2.5 mg/mL (6.48 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	2.5915 mL	12.9574 mL	25.9148 mL
5 mM	0.5183 mL	2.5915 mL	5.183 mL
10 mM	0.2591 mL	1.2957 mL	2.5915 mL
50 mM	0.0518 mL	0.2591 mL	0.5183 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

Ligneau X, et al. BF2.649 [1-{3-[3-(4-Chlorophenyl)propoxy]propyl}piperidine, hydrochloride], a nonimidazole inverse agonist/antagonist at the human histamine H3 receptor: Preclinical pharmacology. J Pharmacol Exp Ther. 2007 Jan;320(1):365-75.

Dudek M, et al. H3 histamine receptor antagonist pitolisant reverses some subchronic disturbances induced by olanzapine in mice. Metab Brain Dis. 2016 Oct;31(5):1023-9.

Uguen M, et al. Preclinical evaluation of the abuse potential of Pitolisant, a histamine H? receptor inverse agonist/antagonist compared with Modafinil. Br J Pharmacol. 2013 Jun;169(3):632-44.