

Pitolisant oxalate

Chemical Properties

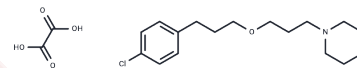
CAS No. : 362665-57-4

Formula: C₁₉H₂₈ClNO₅

Molecular Weight: 385.88

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

| | |
|----------------------------|--|
| Description | Pitolisant oxalate is a potent and selective nonimidazole inverse agonist of the recombinant human histamine H ₃ receptor, exhibiting a K _i of 0.16 nM. |
| Targets(IC ₅₀) | Others |
| In vitro | Pitolisant behaves as a competitive antagonist with a K _i value of 0.16 nM and as an inverse agonist with an EC ₅₀ 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) |
|------------|---|

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.

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 H₃ receptor inverse agonist/antagonist compared with Modafinil. *Br J Pharmacol.* 2013 Jun;169(3):632-44.

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