Product Data Sheet

**Product Name:** Pitolisant oxalate  
**CAS No.:** 362665-57-4  
**Cat. No.:** HY-12199A  
**MWt:** 385.88  
**Formula:** C19H28ClNO5  
**Purity:** >98%  
**Solubility:** DMSO

**Mechanisms:**
Pathways: GPCR/G protein; Target: Histamine Receptor

**Biological Activity:**
Pitolisant oxalate (BF2.649) is a novel, potent, and selective nonimidazole inverse agonist at the recombinant human H3 receptor (Ki=0.16 nM).

- **IC50 Value:** 0.16 nM (Ki value); 1.5 nM (EC50) [1]
- **Target:** H3 receptor
- **BF2.649** behaved 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 approximately 50% higher than that of ciproxifan.

- **in vitro:** BF2.649 behaved 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 approximately 50% higher than that of ciproxifan. Pitolisant in vitro potency was approximately 6 times lower at the rodent receptor [1].
- **in vivo:** In mice, the oral bioavailability coefficient, i.e., the ratio of plasma areas under the curve after oral and i.v. administrations, respectively, was 84%...

**References:**

**Caution:** Not fully tested. For research purposes only

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