Data Sheet (Cat.No.T7176)

TargetMol

Pitolisant hydrochloride

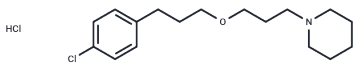
Chemical Properties

CAS No. : 903576-44-3

Formula: C17H27Cl2NO

Molecular Weight: 332.31

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 hydrochloride (Ciproxidine) is a potent and selective inverse agonist of the histamine H3 receptor(Ki : 0.16 nM).
Targets(IC50)	Histamine Receptor
In vivo	Mice fed with high-fat diet showed more weight gain throughout the 12-week period of inducing obesity. Animals fed with high-fat diet and treated with pitolisant (next 14 days) showed significantly less weight gain than mice from the control group consuming a high-fat diet. From the 10th day of the pitolisant administration, a statistically significant difference in body weight between the groups was observed. Metformin, which served as a positive control, reduced body weight from the ninth day of administration onward[1].
Animal Research	Male CD-1 mice were fed on high-fat diet consisting of 40% fat blend (Labofeed B with 40% lard) for 14 weeks, water and 30% sucrose available ad libitum. Control mice were fed on a standard diet and drank water only. After 12 weeks, mice with obesity induced via their diet were randomly divided into three equal groups that had the same mean body weight and were treated intraperitoneally with test compounds at the following doses: pitolisant 10 mg/kg bw/day or metformin 100 mg/kg bw/day; control group: vehicle =1% Tween 80, 0.35 ml/kg (high-fat/sugar diet + vehicle = obesity control group) once daily in the morning, between 9:00 and 10:00 AM for 14 days. Control mice (control without obesity) were maintained on a standard diet, with intraperitoneal administration of vehicle = 1% Tween 80, 0.35 ml/kg (standard diet + vehicle = control group). Water and sucrose were measured daily, immediately prior to administration of drugs. Animals always had free access to feed, water and sucrose[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (752.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0092 mL	15.0462 mL	30.0924 mL
5 mM	0.6018 mL	3.0092 mL	6.0185 mL
10 mM	0.3009 mL	1.5046 mL	3.0092 mL
50 mM	0.0602 mL	0.3009 mL	0.6018 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

Kotańska Magdalena, Kuder K J , Szczepańska Katarzyna, et al. The histamine H3 receptor inverse agonist pitolisant reduces body weight in obese mice[J]. Naunyn-Schmiedeberg's Archives of Pharmacology, 2018.
Schwartz J C . The histamine H3 receptor: from discovery to clinical trials with pitolisant[J]. British journal of pharmacology, 2011, 163(4):713-721.