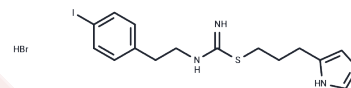


Iodophenpropit dihydrobromide

Chemical Properties

CAS No. :	145196-87-8
Formula:	C ₁₅ H ₂₀ BrIN ₄ S
Molecular Weight:	495.22
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	Iodophenpropit dihydrobromide is an effective and selective antagonist of the histamine H ₃ receptor. The binding of [¹²⁵ I]iodophenpropit is readily reversible, selective, and of high affinity (K _D : 0.32 nM).
Targets(IC ₅₀)	Histamine Receptor
In vitro	Iodophenpropit suppresses 5-hydroxytryptamine (5-HT) responses (IC ₅₀ of 1.57±0.3 μM) [3]. Iodophenpropit is a very potent H ₃ receptor antagonist and displays only a moderate affinity for the H ₁ and H ₂ receptors [2].
In vivo	In rabbits, Iodophenpropit (1 μg/kg; through intramuscular; b.i.d.; for 10 days) displays obviously enhancement of total anti-sheep red blood cells (SRBC)- immunoglobulins (Igs)[4].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0193 mL	10.0965 mL	20.193 mL
5 mM	0.4039 mL	2.0193 mL	4.0386 mL
10 mM	0.2019 mL	1.0097 mL	2.0193 mL
50 mM	0.0404 mL	0.2019 mL	0.4039 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

Jansen FP, et al. The first radiolabeled histamine H3 receptor antagonist, [³H]mianserin, a novel H3 receptor antagonist, and its interaction with the 5-HT₂ receptor. *Br J Pharmacol.* 1995 Oct;116(4):2315-21.

Leurs R, et al. Evaluation of the receptor selectivity of the H3 receptor antagonists, lodophenpropit and thioperamide: an interaction with the 5-HT₃ receptor revealed. *Br J Pharmacol.* 1995 Oct;116(4):2315-21.

Allen MC. Agonist and antagonist effects of histamine H3 receptor ligands on 5-HT₃ receptor-mediated ion currents in NG108-15 cells. *Eur J Pharmacol.* 1998 Nov 20;361(2-3):261-8.

Trivendra Tripathi, et al. In vivo immunomodulatory profile of histamine receptors (H1, H2, H3 and H4): a comparative antagonists study. *Asian Pac J Trop Med.* 2010 Jun;3(6):465-470.

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