Antihistamine-1

Cat. No.: HY-100238

CAS No.: 1186430-60-3

Molecular Formula: $C_{23}H_{24}FN_5$

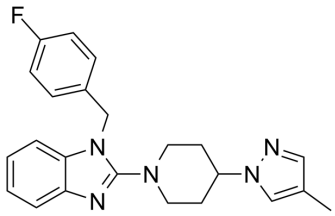
Molecular Weight: 389.47

Target: Histamine Receptor; Cytochrome P450; Potassium Channel

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (64.19 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.5676 mL	12.8380 mL	25.6759 mL
5 mM	0.5135 mL	2.5676 mL	5.1352 mL
10 mM	0.2568 mL	1.2838 mL	2.5676 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Antihistamine-1 is a H1-antihistamine (K_i=6.9 nM) with acceptable blood-brain barrier penetration and also an inhibitor of CYP2D6 and hERG channel with IC_{50}s of 5.4 and 0.8 μM, respectively.

IC_{50} & Target

CYP2D6

5.4 μM (IC_{50})

In Vitro

Antihistamine-1 (Compound 2) is a H1-antihistamine (K_i=6.9 nM) with acceptable blood-brain barrier penetration and also an inhibitor of CYP2D6 and hERG channel with IC_{50}s of 5.4 and 0.8 μM, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lavrador-Erb K, et al. The discovery and structure-activity relationships of 2-(piperidin-3-yl)-1H-benzimidazoles as selective, CNS penetrating H1-antihistamines for insomnia. Bioorg Med Chem Lett. 2010 May 1;20(9):2916-9.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA