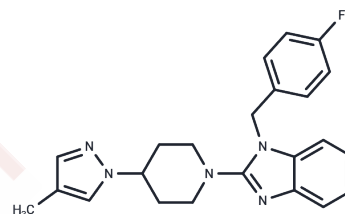


Antihistamine-1

Chemical Properties

CAS No. :	1186430-60-3
Formula:	C ₂₃ H ₂₄ FN ₅
Molecular Weight:	389.47
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	Antihistamine-1 is an H ₁ -antihistamine (K _i : 6.9 nM) with acceptable blood-brain barrier penetration and also an inhibitor of CYP2D6 and hERG channel (IC ₅₀ s: 5.4 and 0.8 μM).
Targets(IC ₅₀)	Histamine Receptor,Cytochromes P450,Potassium Channel
In vitro	Antihistamine-1 is a H ₁ -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].

Solubility Information

Solubility	DMSO: 11 mg/mL (28.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5676 mL	12.838 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
50 mM	0.0514 mL	0.2568 mL	0.5135 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481