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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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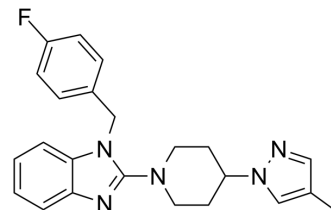
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Antihistamine-1

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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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.

Caution: Product has not been fully validated for medical applications. For research use only.

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