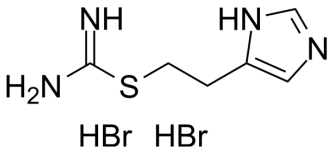
Imetit dihydrobromide

Cat. No.:	HY-101173
CAS No.:	32385-58-3
Molecular Formula:	$C_6H_{12}Br_2N_4S$
Molecular Weight:	332.06
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Imetit dihydrobromide (VUF 8325 dihydrobromide) is a high affinity and potent agonist of histamine H3 and H4 receptors, with K_i values of 0.3 and 2.7 nM, respectively. Imetit mimics histamine effect in triggering a shape change in eosinophils (EC_{50}=25 nM)[1][2][3].

IC_{50} & Target	H_3 Receptor	H_4 receptor
	0.3 nM (Ki)	2.7 nM (Ki)

In Vivo

Imetit dihydrobromide (2.5-10 mg/kg; i.p.) reduces the licking response induced by Apomorphine[4].

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

Animal Model:	Male Sprague-Dawley rats[4]
Dosage:	2.5, 5, 10 mg/kg
Administration:	i.p. (30 min before Apomorphine)
Result:	Reduced the licking response induced by Apomorphine.

REFERENCES

[1]. Liu C, et al. Cloning and pharmacological characterization of a fourth histamine receptor (H(4)) expressed in bone marrow. Mol Pharmacol. 2001 Mar;59(3):420-6.

[2]. Ling P, et al. Histamine H4 receptor mediates eosinophil chemotaxis with cell shape change and adhesion molecule upregulation. Br J Pharmacol. 2004 May;142(1):161-71.

[3]. Garbarg M, et al. S-[2-(4-imidazolyl)ethyl]isothiourea, a highly specific and potent histamine H3 receptor agonist. J Pharmacol Exp Ther. 1992 Oct;263(1):304-10.

[4]. Farzin D, et al. Influence of different histamine receptor agonists and antagonists on apomorphine-induced licking behavior in rat. Eur J Pharmacol. 2000 Sep 15;404(1-2):169-74.

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

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