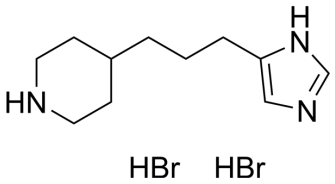
VUF 5681 dihydrobromide

Cat. No.:	HY-107556
CAS No.:	639089-06-8
Molecular Formula:	$C_{11}H_{21}Br_2N_3$
Molecular Weight:	355.11
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VUF 5681 dihydrobromide is a neutral antagonist of histamine H_3 receptor. VUF 5681 dihydrobromide also has partial agonist function of H_3 receptor. VUF 5681 dihydrobromide blocks the effects of Thioperamide (HY-12206). VUF 5681 dihydrobromide is used in central nervous system disease research[1][2].
IC_{50} & Target	H_3 receptor
In Vitro	VUF 5681 dihydrobromide (10 μM) blocks the stimulation of thioperamide in brain tissue[1]. VUF 5681 dihydrobromide (100 nM) inhibits other agonists in CHO-H3-SPAP cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Moreno-Delgado D, et al. Constitutive activity of H3 autoreceptors modulates histamine synthesis in rat brain through the cAMP/PKA pathway. Neuropharmacology. 2006 Sep;51(3):517-23.

[2]. Baker JG. Antagonist affinity measurements at the Gi-coupled human histamine H3 receptor expressed in CHO cells. BMC Pharmacol. 2008 Jun 6;8:9.

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