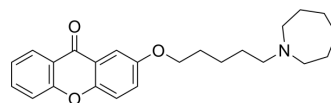


H3R antagonist 2

Cat. No.:	HY-146383
Molecular Formula:	C ₂₄ H ₂₉ NO ₃
Molecular Weight:	379.49
Target:	Histamine Receptor; Cholinesterase (ChE); Monoamine Oxidase
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	H3R antagonist 2 (Compound 23) is a multitarget histamine H ₃ receptor (H ₃ R) antagonist with a K _i of 170 nM for hH ₃ R. H3R antagonist 2 shows inhibitory effects with IC ₅₀ values of 180, 880 and 775 nM for acetylcholinesterase, butyrylcholinesterase and human monoamine oxidase B (hMAO B), respectively. H3R antagonist 2 shows favorable anti-neuropathic pain and memory-enhancing effects. H3R can cross BBB ^[1] .			
IC₅₀ & Target	human H ₃ receptor 170 nM (K _i)	Acetylcholinesterase 180 nM (IC ₅₀)	MAO-B 775 nM (IC ₅₀)	Butyrylcholinesterase 880 nM (IC ₅₀)

REFERENCES

[1]. Łażewska D, et al. Rational design of new multitarget histamine H₃ receptor ligands as potential candidates for treatment of Alzheimer's disease. Eur J Med Chem. 2020 Dec 1;207:112743.

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

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