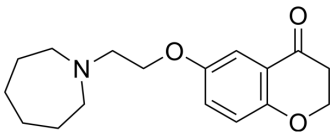
AChE/BuChE/MAO-B-IN-1

Cat. No.:	HY-151562
CAS No.:	2834758-29-9
Molecular Formula:	$C_{17}H_{23}NO_3$
Molecular Weight:	289.37
Target:	Cholinesterase (ChE); Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AChE/BuChE/MAO-B-IN-1 (compound 19) is an inhibitor of human acetyl- (hAChE), butyrylcholinesterase (hBuChE) and monoamine oxidase-B (hMAO-B) with IC_{50}s of 4.8 μM, 13.7 μM, and 1.11 μM, respectively. AChE/BuChE/MAO-B-IN-1 also exhibits high affinity to both the σ_1 and σ_2 receptors with K_i values of 42.8 nM (human σ_1 receptor) and 191 nM (rat σ_2 receptor), respectively. AChE/BuChE/MAO-B-IN-1 can be used for Alzheimer's disease research[1].		
IC_{50} & Target	hAChE 4.8 μM (IC_{50})	hBCHE 13.7 μM (IC_{50})	hMAO-B 1.11 μM (IC_{50})

REFERENCES

[1]. Tim Keuler, et al. The Chemotype of Chromanones as a Privileged Scaffold for Multineurotarget Anti-Alzheimer Agents. ACS Pharmacol. Transl. Sci. 2022, 12 Oct.

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

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