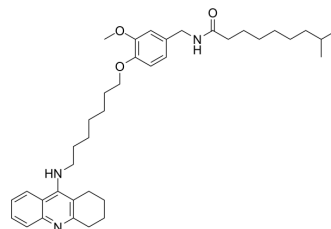


hAChE-IN-7

Cat. No.:	HY-157527
CAS No.:	2978613-03-3
Molecular Formula:	C ₃₈ H ₅₅ N ₃ O ₃
Molecular Weight:	601.86
Target:	Cholinesterase (ChE); Beta-secretase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

hAChE-IN-7 (compound 5s) is a mixed inhibitor affecting both the catalytic active site (CAS) and peripheral anionic site (PAS) of hAChE. hAChE-IN-7 displays the balanced inhibitory effect on hAChE (IC₅₀=69.8 nM) and hBuChE (IC₅₀=68.0 nM), and exhibits inhibitory activity against β-secretase-1 (BACE-1) (IC₅₀=3.6 μM). hAChE-IN-7 has the potential for Alzheimer's disease (AD) research^[1].

REFERENCES

[1]. Juanyue Long, et al. Design, synthesis, and biological evaluation of novel capsaicin-tacrine hybrids as multi-target agents for the treatment of Alzheimer's disease. *Bioorg Chem.* 2024 Feb;143:107026.

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

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