hAChE-IN-1

Cat. No.: HY-149233

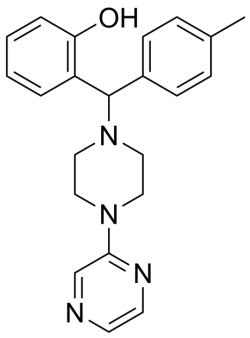
Molecular Formula: $C_{22}H_{24}N_4O$

Molecular Weight: 360.45

Target: Cholinesterase (ChE); Tau Protein

Pathway: Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

hAChE-IN-1 (Compound 24) is a potent hAChE inhibitor with an IC_{50} of 1.09 μM. hAChE-IN-1 inhibits tau-oligomerization with an EC_{50} of 2.71 μM in cellular tau FRET assay[1].

IC_{50} & Target

hAChE	tau-oligomerization
1.09 μM (IC_{50})	2.71 μM (EC50)

In Vitro

hAChE-IN-1 (Compound 24; 1-10 μM; 24 h) is neuroprotective in SH-SY5Y cells transfected with WT tau[1].

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

Cell Viability Assay[1]

Cell Line:	SH-SY5Y cells transfected with WT tau
Concentration:	1, 5 and 10 μM
Incubation Time:	24 h
Result:	Improved the cell viability in a concentration-dependent manner.

REFERENCES

[1]. Madhav H, et al. Multicomponent Petasis reaction for the identification of pyrazine based multi-target directed anti-Alzheimer's agents: In-silico design, synthesis, and characterization. Eur J Med Chem. 2023 Jun 5;254:115354.

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