BChE-IN-32

Cat. No.: HY-161453

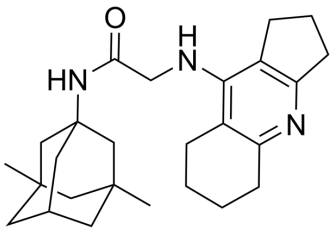
Molecular Formula: $C_{26}H_{37}N_3O$

Molecular Weight: 407.59

Target: Cholinesterase (ChE)

Pathway: Neuronal Signaling

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



BIOLOGICAL ACTIVITY

Description	ChE-IN-32 (compound 5d) is a potent and selective hBChE inhibitor with an IC_{50} value of 0.109 μM. BChE-IN-32 shows cytotoxicity. BChE-IN-32 has the potential for the research of Alzheimer's disease[1].
IC_{50} & Target	hBCHE 0.109 μM (IC_{50})
In Vitro	BChE-IN-32 (compound 5d) (0-200 μM) shows cytotoxicity with IC_{50}s of 110.0, 42 μM for SH-SY5Y, HepG2 cells, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay[1]

Cell Line:	SH-SY5Y, HepG2 cells
Concentration:	0-200 μM
Incubation Time:	
Result:	Showed cytotoxicity with IC_{50}s of 110.0, 42 μM for SH-SY5Y, HepG2 cells, respectively.

REFERENCES

[1]. Mezeiova E, et al. Morphing cholinesterase inhibitor amiridine into multipotent drugs for the treatment of Alzheimer's disease. Biomed Pharmacother. 2024 Apr;173:116399.

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