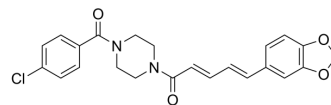


## PD07

Cat. No.:	HY-149340
Molecular Formula:	C <sub>23</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>4</sub>
Molecular Weight:	424.88
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	PD07 is an orally active AChE inhibitor (IC <sub>50</sub> : 0.29 μM for hAChE). PD07 also inhibits ChEs, BACE1 (IC <sub>50</sub> : 13.42 μM), and Aβ <sub>1-42</sub> aggregation in in vitro. PD07 is an antioxidant, and shows DPPH inhibitory activity (IC <sub>50</sub> : 26.46 μM). PD07 improves memory and cognition in Scopolamine (HY-N0296)-induced amnesia rats. PD07 can be used for research of Alzheimer's disease <sup>[1]</sup> .
IC <sub>50</sub> & Target	0.29 μM (hAChE) <sup>[1]</sup>

## REFERENCES

[1]. Bhanukiran K, et al. Discovery of Multitarget-Directed Ligands from Piperidine Alkaloid Piperine as a Cap Group for the Management of Alzheimer's Disease. ACS Chem Neurosci. 2023 Aug 2;14(15):2743-2760.

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

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