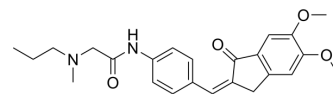


ACHe/MAO-B-IN-3

Cat. No.:	HY-152111
Molecular Formula:	C ₂₄ H ₂₈ N ₂ O ₄
Molecular Weight:	408.49
Target:	Cholinesterase (ChE); Monoamine Oxidase; Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ACHe/MAO-B-IN-3 (Compound D30) is a dual AChE and MAO-B inhibitor with IC ₅₀ s of 0.0257 μM and 0.0456 μM against human AChE and MAO-B, respectively. AChE/MAO-B-IN-3 can be used for the research of Alzheimer's disease ^[1] .		
IC₅₀ & Target	Aβ42 0.0074 μM (IC ₅₀)	hAChE 0.0257 μM (IC ₅₀)	hMAO-B 0.0456 μM (IC ₅₀)
In Vitro	AChE/MAO-B-IN-3 (Compound D30) shows antioxidant activity with an IC ₅₀ of 0.246 ± 0.011 μM in the DPPH free-radical scavenging activity test ^[1] . AChE/MAO-B-IN-3 inhibits beta amyloid 1–42 (Aβ42) with an IC ₅₀ of 0.1780 ± 0.0074 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Sağlık BN, et al. Design, Synthesis, and In Vitro and In Silico Approaches of Novel Indanone Derivatives as Multifunctional Anti-Alzheimer Agents. ACS Omega. 2022 Dec 7;7(50):47378-47404.

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

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