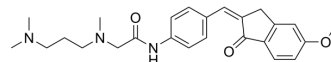


## AChE/BChE/MAO-B-IN-2

<b>Cat. No.:</b>	HY-152112
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	421.53
<b>Target:</b>	Monoamine Oxidase; Cholinesterase (ChE)
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AChE/BChE/MAO-B-IN-2 is a potent AChE, BChE, and MAO-B enzymes inhibitor with IC <sub>50</sub> values of 48.2 nM, 83.9 nM, and 31.2 nM, respectively. AChE/BChE/MAO-B-IN-2 has significant antioxidant activity, and can be used for Parkinson's disease research <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	MAO-B 48.2 nM (IC <sub>50</sub> )	AChE 83.9 nM (IC <sub>50</sub> )	BChE 31.2 nM (IC <sub>50</sub> )
<b>In Vitro</b>	AChE/BChE/MAO-B-IN-2 (compound D37) shows DPPH free-radical scavenging activities with an IC <sub>50</sub> of 0.179 μM. AChE/BChE/MAO-B-IN-2 also has β-amyloid aggregation inhibitory abilities <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### REFERENCES

[1]. Begüm Nurpelin Sağlık, 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.

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

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