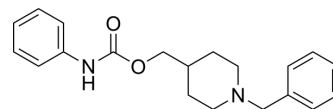


## AChe/BChE/MAO-B-IN-1

Cat. No.:	HY-146312
CAS No.:	2416910-82-0
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	324.42
Target:	Cholinesterase (ChE); Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AChE/BChE/MAO-B-IN-1 (Compound 10) is a reversible and non-time-dependent AChE, BChE and MAO-B inhibitor with IC <sub>50</sub> values of 7.31, 0.56 and 26.1 μM for hAChE, hBChE and hMAO-B, respectively. AChE/BChE/MAO-B-IN-1 can cross the BBB and shows neuroprotective effects without cytotoxicity <sup>[1]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	hBChE 0.56 μM (IC <sub>50</sub> )	hAChE 7.31 μM (IC <sub>50</sub> )	MAO-B 26.1 μM (IC <sub>50</sub> )
<b>In Vitro</b>	AChE/BChE/MAO-B-IN-1 (Compound 10) prevents amyloid β <sub>1-42</sub> (Aβ <sub>1-42</sub> )-induced neuronal cell death <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

### REFERENCES

[1]. Kořak U, et al. N-alkylpiperidine carbamates as potential anti-Alzheimer's agents. Eur J Med Chem. 2020 Jul 1;197:112282.

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

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