## Inhibitors



## AChE/BChE-IN-6

Cat. No.: HY-146315 CAS No.: 2416910-94-4 Molecular Formula:  $C_{23}H_{30}N_{2}O_{2}$ Molecular Weight: 366.5

Target: Cholinesterase (ChE); Monoamine Oxidase

Pathway: **Neuronal Signaling** 

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

**Product** Data Sheet

## **BIOLOGICAL ACTIVITY**

Description	AChE/BChE-IN-6 (compound 22) is a potent dual AChE/BChE inhibitor with IC $_{50}$ values of 0.809 $\mu$ M, 2.248 $\mu$ M and > 100 $\mu$ M for hBChE, hAChE and hMAO-B, respectively. AChE/BChE-IN-6 penetrates the blood-brain barrier (BBB). AChE/BChE-IN-6 can be used for Alzheimer's disease (AD) research <sup>[1]</sup> .		
IC <sub>50</sub> & Target	hMAO-B ⊠ 100 μM (IC <sub>50</sub> )	hAChE 2.248 μM (IC <sub>50</sub> )	hBCHE 0.809 μM (IC <sub>50</sub> )
In Vitro	AChE/BChE-IN-6 (compound 22) (1-100 $\mu$ M; 48 hours) can cross the blood-brain barrier and has neuroprotective to human neuronal-like SH-SY5Y and liver HepG2 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	SH-SY5Y and HepG2 cells	
	Concentration:	1-100 μΜ	
	Incubation Time:	48 hours	
	Result:	Had non-cytotoxic at 20 $\mu\text{M}$ on SH-SY5Y cells and at 50 $\mu\text{M}$ on HepG2 cells.	

## **REFERENCES**

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

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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