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 μ M, 2.248 μ M and > 100 μ 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 ^[1] .		
IC ₅₀ & Target	hMAO-B ⊠ 100 μM (IC ₅₀)	hAChE 2.248 μM (IC ₅₀)	hBCHE 0.809 μM (IC ₅₀)
In Vitro	AChE/BChE-IN-6 (compound 22) (1-100 μ M; 48 hours) can cross the blood-brain barrier and has neuroprotective to human neuronal-like SH-SY5Y and liver HepG2 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	SH-SY5Y and HepG2 cells	
	Concentration:	1-100 μΜ	
	Incubation Time:	48 hours	
	Result:	Had non-cytotoxic at 20 μM on SH-SY5Y cells and at 50 μM 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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