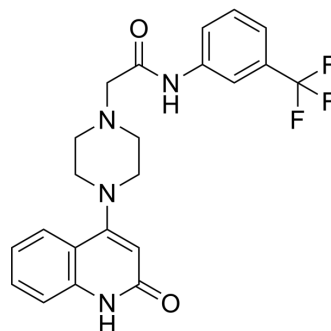


## AChE/A $\beta$ -IN-3

Cat. No.:	HY-157440
Molecular Formula:	C <sub>22</sub> H <sub>21</sub> F <sub>3</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	430.42
Target:	Amyloid- $\beta$ ; Reactive Oxygen Species; Cholinesterase (ChE)
Pathway:	Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF- $\kappa$ B
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	AChE/A $\beta$ -IN-3 (compound AM5) is a dual inhibitor of AChE and Amyloid- $\beta$ aggregation with IC <sub>50</sub> values of 1.29 and 4.93 $\mu$ M, respectively. AChE/A $\beta$ -IN-3 has antioxidant properties that scavenge ROS and restore their normal levels. AChE/A $\beta$ -IN-3 can be used in the study of neurological diseases, such as Alzheimer's disease <sup>[1]</sup> .
IC <sub>50</sub> & Target	AChE 1.29 $\mu$ M (IC <sub>50</sub> )

### REFERENCES

[1]. Manzoor S, et al. Discovery of Quinolinone Hybrids as Dual Inhibitors of Acetylcholinesterase and A $\beta$  Aggregation for Alzheimer's Disease Therapy. ACS Chem Neurosci. 2023 Dec 27.

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

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