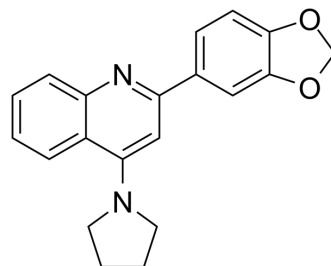


AChE/BuChE-IN-2

Cat. No.:	HY-146142
CAS No.:	1946008-31-6
Molecular Formula:	C ₂₀ H ₁₈ N ₂ O ₂
Molecular Weight:	318.37
Target:	AChE; Amyloid-β
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AChE/BuChE-IN-2 (Compound 5f) is an orally active AChE and BuChE inhibitor with IC ₅₀ values of 0.72 μM and 0.16 μM, respectively. AChE/BuChE-IN-2 shows a non-competitive inhibition with AChE and shows potent self-induced β-amyloid (Aβ) aggregation inhibition with an IC ₅₀ of 62.52 μM. AChE/BuChE-IN-2 can cross the BBB ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.16 μM (BuChE), 0.72 μM (AChE), 62.52 μM (Aβ aggregation) ^[1]
In Vivo	AChE/BuChE-IN-2 (Compound 5f) (20 μmol/kg) significantly ameliorates the cognitive performances of scopolamine-treated ICR mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Luo W, et al. Synthesis, in vitro and in vivo biological evaluation of novel graveoline derivatives as potential anti-Alzheimer agents. *Bioorg Med Chem*. 2020 Jan 1;28(1):115190.

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

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