

Product Data Sheet

AChE-IN-56

Molecular Weight: 509.02

Target: Cholinesterase (ChE)
Pathway: Neuronal Signaling

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

Analysis.

BIOLOGICAL ACTIVITY

| Description | AChe-IN-56 is an orally active inhibitor for acetylcholinesterase enzyme (AChE) with neuroprotective efficacy ^[1] . | |
|---------------------------|--|--|
| IC ₅₀ & Target | AChE | |
| In Vivo | AChe-IN-56 (2 mg/kg, p.o., 5 days) exhibits an inhibitory efficacy in scopolamine-induced memory impairment and learning disability in Swiss albino mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Animal Model: | scopolamine-induced memory and learning disability in swiss albino mice $^{\left[1\right]}$ |
| | Dosage: | 2 mg/kg |
| | Administration: | p.o., for 5 days |
| | Result: | Reduced escape latency, restored the levels of AChE, lipids peroxidation, nitrit and oxidative stress and inhibited the production of ROS and RNS. |

REFERENCES

[1]. Gupta M, et al., Investigation, scaffold hopping of novel donepezil-based compounds as anti-Alzhiemer's agents: synthesis, in-silico and pharmacological evaluations. Sci Rep. 2024 Jan 19;14(1):1687.

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

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