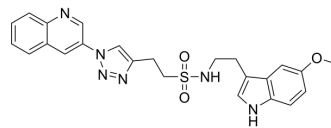


T14-A24

Cat. No.:	HY-161029
Molecular Formula:	C ₂₄ H ₂₄ N ₆ O ₃ S
Molecular Weight:	476.55
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	T14-A24 is an orally active, reversible, competitive, and selective AChE inhibitor ($K_i=22$ nM, $IC_{50}=6$ nM). T14-A24 has benign BBB penetration, remarkable neuroprotective effect, and safe toxicological profile ^[1] .
IC ₅₀ & Target	AChE 22 nM (K _i)
In Vivo	T14-A24 (10 mg/kg, po) improves the Aβ ₁₋₄₂ -induced cognitive impairment, significantly prevents the effects of Aβ ₁₋₄₂ toxicity in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tang K, et al. Microtiter plate-based chemistry and in situ screening: SuFEx-enabled lead discovery of selective AChE inhibitors. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2237213.

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

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