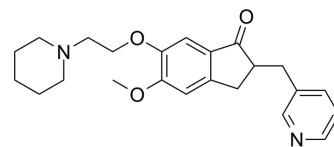


AChe/PDE4-IN-1

Cat. No.:	HY-147846
Molecular Formula:	C ₂₃ H ₂₈ N ₂ O ₃
Molecular Weight:	380.48
Target:	Cholinesterase (ChE); Phosphodiesterase (PDE)
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AChe/PDE4-IN-1 (compound 12c) is a potent and selective dual PDE4/AChE inhibitor, with IC ₅₀ s of 0.28 μM and 1.88 μM for AChE and PDE4D, respectively. AChE/PDE4-IN-1 exhibits anti-neuroinflammatory effect for the research of Alzheimer's disease ^[1] .	
IC ₅₀ & Target	AChE 0.28 μM (IC ₅₀)	PDE4 1.88 μM (IC ₅₀)

REFERENCES

[1]. Liu J, et, al. Discovery of novel 2,3-dihydro-1H-inden-1-ones as dual PDE4/AChE inhibitors with more potency against neuroinflammation for the treatment of Alzheimer's disease. *Eur J Med Chem.* 2022 Aug 5;238:114503.

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

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