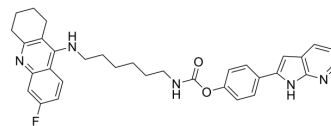


AChE/BChE-IN-16

Cat. No.:	HY-157437
Molecular Formula:	C ₃₃ H ₃₄ FN ₅ O ₂
Molecular Weight:	551.65
Target:	Cholinesterase (ChE); Reactive Oxygen Species
Pathway:	Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AChE/BChE-IN-16 (compound C7) is a potent cholinesterase (ChE) inhibitor with IC ₅₀ s of 30 nM and 48 nM for human acetylcholinesterase (hAChE) and human butyrylcholinesterase (hBChE), respectively. AChE/BChE-IN-16 exhibits a remarkable capacity to safeguard PC12 cells against H ₂ O ₂ -induced apoptosis and effectively suppresses the production of reactive oxygen species (ROS) ^[1] .	
IC₅₀ & Target	hAChE 30 nM (IC ₅₀)	hBChE 48 nM (IC ₅₀)

REFERENCES

[1]. Yaoyang Liu, et al. Design, synthesis and biological evaluation of carbamate derivatives incorporating multifunctional carrier scaffolds as pseudo-irreversible cholinesterase inhibitors for the treatment of Alzheimer's disease. *Eur J Med Chem.* 2023 Dec 21:265:116071

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

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