BChE-IN-31

Cat. No.:	HY-163441	Q
Molecular Formula:	C ₃₁ H ₄₂ N ₄ O	
Molecular Weight:	486.69	N
Target:	Cholinesterase (ChE)	
Pathway:	Neuronal Signaling	~ 5
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY				
Description	BChE-IN-31 (Compound 14d) is a selective BChE inhibitor with an IC ₅₀ of 65 nM. BChE-IN-31 inhibits the self-induced aggregation of neurotoxic amyloid- β (A β) peptide ^[1] .			
IC ₅₀ & Target	BChE 65 nM (IC ₅₀)	AChE 5.9 μM (IC ₅₀)		
In Vitro	BChE-IN-31 (0-20 μM, 24 h) exhibits a protective effect against NMDA (HY-17551)-induced toxicity and H ₂ O ₂ -induced oxidation in SH-SY5Y cells at 5 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	SH-SY5Y		
	Concentration:	0-20 μΜ		
	Incubation Time:	24 h		
	Result:	Improved the cell viability at 5 μM , inhibited cell viability dose-dependently at 5-20 μM .		

REFERENCES

[1]. Samarelli F, et al., Novel 6-alkyl-bridged 4-arylalkylpiperazin-1-yl derivatives of azepino [4, 3-b] indol-1 (2H)-one as potent BChE-selective inhibitors showing protective effects against neurodegenerative insults[J]. European Journal of Medicinal Chemistry, 2024: 116353.

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

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Product Data Sheet

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