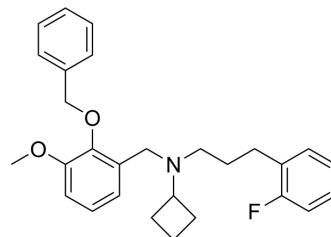


BChE-IN-16

Cat. No.:	HY-149243
Molecular Formula:	C ₂₈ H ₃₂ FNO ₂
Molecular Weight:	433.56
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BChE-IN-16 (compound 87) is a highly potent BChE inhibitor with an IC ₅₀ of 3.8 nM for hBChE. BChE-IN-16 has low cytotoxicity, potential CNS permeability, unique adaptability and can be used in Alzheimer's disease (AD) research.
IC₅₀ & Target	hBChE 3.8 nM (IC ₅₀)
In Vitro	BChE-IN-16 has zero inhibition of hAChE when the IC ₅₀ value is greater than 10 μM ^[1] . BChE-IN-16 competitively inhibits hBChE with a K _i value of 4.04 nM ^[1] . BChE-IN-16 is cytotoxic to SH-SY5Y cells with an IC ₅₀ value of 87.0 μM ^[1] . BChE-IN-16 is cytotoxic to HepG2 cells with an IC ₅₀ value of 76.0 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pidany F, et al. Highly selective butyrylcholinesterase inhibitors related to Amaryllidaceae alkaloids - Design, synthesis, and biological evaluation. Eur J Med Chem. 2023 Apr 5;252:115301.

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

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