

## BChE-IN-16

## Chemical Properties

CAS No. :

Formula: C28H32FNO2

Molecular Weight: 433.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	BChE-IN-16 (compound 87) is a potent inhibitor of human butyrylcholinesterase (hBChE) with an inhibition concentration half-maximum (IC <sub>50</sub> ) of 3.8 nM. It demonstrates low cytotoxicity, potential for central nervous system (CNS) permeability, and unique adaptability, making it a valuable tool for Alzheimer's disease (AD) research.
Targets(IC <sub>50</sub> )	Others,Cholinesterase (ChE)
In vitro	BChE-IN-16 exhibits no inhibitory activity against hAChE at IC <sub>50</sub> values greater than 10 μM [1]. It acts as a competitive inhibitor of hBChE with a K <sub>i</sub> value of 4.04 nM [1]. Additionally, BChE-IN-16 demonstrates cytotoxic effects on the SH-SY5Y cell line, with an IC <sub>50</sub> value of 87.0 μM, and on the HepG2 cell line, with an IC <sub>50</sub> value of 76.0 μM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3065 mL	11.5324 mL	23.0649 mL
5 mM	0.4613 mL	2.3065 mL	4.613 mL
10 mM	0.2306 mL	1.1532 mL	2.3065 mL
50 mM	0.0461 mL	0.2306 mL	0.4613 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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