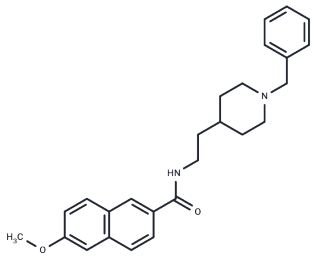
Data Sheet (Cat.No.T61969)

TargetMol
YOUR TARGET MOLECULES

AChE/BChE-IN-10

Chemical Properties



CAS No. :

Formula: C26H30N2O2

Molecular Weight: 402.53

Appearance: no data available

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

Biological Description

Description	AChE/BChE-IN-10 is a potent dual inhibitor of AChE and BChE with IC50 values of 0.176, and 0.47 μM, respectively. AChE/BChE-IN-10 exhibits good blood brain barrier permeability. AChE/BChE-IN-10 can inhibit Aβ-aggregation.
Targets(IC50)	AChR,AChE
In vitro	AChE/BChE-IN-10 inhibits AChE in a non-competitive manner (Ki= 0.21 μM), and BChE in a mixed-fashion(Ki= 0.15 μM)[1].

Solubility Information

Solubility	DMSO: 4.03 mg/mL (10 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4843 mL	12.4214 mL	24.8429 mL
5 mM	0.4969 mL	2.4843 mL	4.9686 mL
10 mM	0.2484 mL	1.2421 mL	2.4843 mL
50 mM	0.0497 mL	0.2484 mL	0.4969 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.

Reference

Mohd Abdullaha, et al. Discovery of methoxy-naphthyl linked N-(1-benzylpiperidine) benzamide as a blood-brain permeable dual inhibitor of acetylcholinesterase and butyrylcholinesterase. Eur J Med Chem. 2020 Dec 1;207:

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