

AChE/BChE/MAO-B-IN-4

Chemical Properties

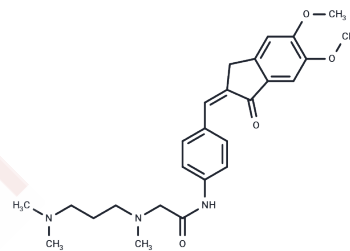
CAS No. :

Formula: C₂₆H₃₃N₃O₄

Molecular Weight: 451.56

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	AChE/BChE/MAO-B-IN-4, an indan-1-one derivative, is a potent inhibitor of monoamine oxidase B (MAO-B) and acetylcholinesterase/butyrylcholinesterase (AChE/BChE). It strongly inhibits human MAO-B with an IC ₅₀ of 0.0393 μM and is highly effective against human AChE and BChE with IC ₅₀ values of 0.0458 μM and 0.075 μM, respectively. Additionally, this compound exhibits significant antioxidant properties and ability to prevent β-amyloid plaque aggregation, suggesting its potential in Alzheimer's disease (AD) research.
Targets(IC ₅₀)	Others,Cholinesterase (ChE),Monoamine Oxidase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2145 mL	11.0727 mL	22.1455 mL
5 mM	0.4429 mL	2.2145 mL	4.4291 mL
10 mM	0.2215 mL	1.1073 mL	2.2145 mL
50 mM	0.0443 mL	0.2215 mL	0.4429 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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