

AChE-IN-82

Chemical Properties

CAS No. :

Formula: C₂₁H₁₈N₄O₅S₂

Molecular Weight: 470.52

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-IN-82 (compound 49) is an acetylcholinesterase (AChE) inhibitor. It inhibits eeAChE, eqBChE, hMAO-A, hMAO-B, and BACE-1 with IC ₅₀ values of 0.072, 9.81, 14.52, 0.024, and 2.42 μ M, respectively. Additionally, AChE-IN-82 inhibits COX-1, COX-2, and 5-LOX with IC ₅₀ values of 60.41, 0.187, and 0.18 μ M, respectively. The compound also demonstrates strong neuroprotective effects by significantly reducing H ₂ O ₂ -induced oxidative stress.
Targets(IC ₅₀)	Beta-Secretase, Cholinesterase (ChE), COX, Lipoxygenase, Monoamine Oxidase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1253 mL	10.6265 mL	21.2531 mL
5 mM	0.4251 mL	2.1253 mL	4.2506 mL
10 mM	0.2125 mL	1.0627 mL	2.1253 mL
50 mM	0.0425 mL	0.2125 mL	0.4251 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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