

AChE/BChE-IN-25

Chemical Properties

CAS No. :

Formula: C₂₁H₂₄ClN₃O₂

Molecular Weight: 385.89

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-IN-25 (Compound 6e) is an orally active inhibitor of hAChE and eqBChE, with IC ₅₀ values of 7.9 nM and 0.79 nM, respectively. This compound exhibits antioxidant activity, effective in scavenging free radicals with an IC ₅₀ of 22.91 μM. AChE/BChE-IN-25 demonstrates neuroprotective effects by reducing mitochondrial and cellular oxidative stress in a Drosophila Alzheimer's model and improves spatial and cognitive memory impairments induced by Scopolamine in mouse models.
Targets(IC ₅₀)	Cholinesterase (ChE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5914 mL	12.9571 mL	25.9141 mL
5 mM	0.5183 mL	2.5914 mL	5.1828 mL
10 mM	0.2591 mL	1.2957 mL	2.5914 mL
50 mM	0.0518 mL	0.2591 mL	0.5183 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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