

PD07

Chemical Properties

CAS No. :

Formula: C₂₃H₂₁ClN₂O₄

Molecular Weight: 424.88

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	PD07 is an orally active acetylcholinesterase (AChE) inhibitor, exhibiting an IC ₅₀ of 0.29 μM against human AChE, and demonstrates inhibition of cholinesterases (ChEs), β-site amyloid precursor protein cleaving enzyme 1 (BACE1) with an IC ₅₀ of 13.42 μM, as well as Aβ ₁₋₄₂ aggregation in vitro. Additionally, PD07 possesses antioxidant properties with a DPPH radical inhibition IC ₅₀ value of 26.46 μM and has been shown to ameliorate memory and cognitive deficits in scopolamine-induced amnesic rats. This compound is relevant for Alzheimer's disease research [1].
Targets(IC ₅₀)	Others,Cholinesterase (ChE)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3536 mL	11.768 mL	23.5361 mL
5 mM	0.4707 mL	2.3536 mL	4.7072 mL
10 mM	0.2354 mL	1.1768 mL	2.3536 mL
50 mM	0.0471 mL	0.2354 mL	0.4707 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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