

Z164597606

Chemical Properties

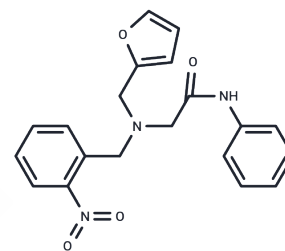
CAS No. : 1050587-57-9

Formula: C₂₀H₁₉N₃O₄

Molecular Weight: 365.38

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	Z164597606 is a compound that acts as a selective inhibitor of the enzyme Butyrylcholinesterase (BChE), with IC ₅₀ values of 1.3 μM and 1.7 μM for equine BChE and human BChE, respectively. Through a π-π stacking interaction, Z164597606 specifically interacts with the amino acid Trp82 of human BChE. This compound has potential applications in Alzheimer's disease research [1] [2].
Targets(IC ₅₀)	Others,Cholinesterase (ChE)
In vitro	Z164597606 at a concentration of 10 μM potently reduces BChE activity while demonstrating minimal inhibition (not exceeding 30%) of AChE, according to study [1]. At concentrations ranging from 0.5 to 20 μM, Z164597606 likely targets the catalytic anionic site (CAS) of BChE, as inferred from Lineweaver-Burk reciprocal plots [1]. Furthermore, Z164597606 has been shown to be non-toxic to the neuronal cell line SH-SY5Y at concentrations of 10 and 50 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7369 mL	13.6844 mL	27.3688 mL
5 mM	0.5474 mL	2.7369 mL	5.4738 mL
10 mM	0.2737 mL	1.3684 mL	2.7369 mL
50 mM	0.0547 mL	0.2737 mL	0.5474 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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