

A β 42 agonist-2

Chemical Properties

CAS No. : 6314-40-5

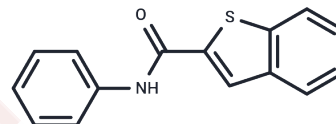
Formula: C₁₅H₁₁NOS

Molecular Weight: 253.32

Keep away from direct sunlight

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	A β 42 agonist-2 is a protein aggregation modulator that promotes A β 42 aggregation. It facilitates non-toxic fibril formation to protect hippocampal neurons from A β 42-induced toxicity.
Targets(IC50)	Beta Amyloid
In vitro	A β 42 agonist-2 (7b) exhibits significant neuroprotective activity in HT22 hippocampal neuronal cell models [1]. The compound specifically recognizes initial A β 42 aggregates and induces their rapid conversion into high-molecular-weight, non-toxic amyloid fibrils via a "bypass" mechanism [1]. This rapid transition reduces oxidative stress and membrane damage caused by A β oligomers, effectively mitigating the apoptotic process in neuronal cells [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (394.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9476 mL	19.7379 mL	39.4758 mL
5 mM	0.7895 mL	3.9476 mL	7.8952 mL
10 mM	0.3948 mL	1.9738 mL	3.9476 mL
50 mM	0.079 mL	0.3948 mL	0.7895 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.

Reference

Huang, T., Jiang, D., Chen, J., Gao, W., Ding, J., & Wu, H. (2011). Silica Sulfuric Acid (SSA)/Polyethylene Glycol (PEG) as a Recyclable System for the Synthesis of Quinoxalines and Pyrazines. *Synthetic Communications*, 41(22), 3334-3343.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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