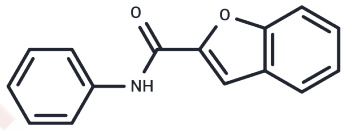
Data Sheet (Cat.No.T85792)

TargetMol

Aβ42 agonist-1

Chemical Properties



CAS No. : 50635-12-6

Formula: C15H11NO2

Molecular Weight: 237.25

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	Aβ42 agonist-1 is a small molecule compound with anticancer and NF-κB inhibitory activities. It induces Aβ42 aggregation and can be used to study neurological diseases.
Targets(IC50)	Beta Amyloid,Gamma-secretase
In vitro	Aβ42 agonist-1 can promote and accelerate Aβ42 aggregation, is non-toxic to HT22 hippocampal neurons, and compared with Aβ42 treatment group (cell viability ~ 20%), It can significantly prevent the cytotoxicity (cell viability ~ 74%) of HT22 hippocampal neuron cells induced by Aβ42. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (421.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.215 mL	21.0748 mL	42.1496 mL
5 mM	0.843 mL	4.215 mL	8.4299 mL
10 mM	0.4215 mL	2.1075 mL	4.215 mL
50 mM	0.0843 mL	0.4215 mL	0.843 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

Zhao Y, et al. Small Molecules N-Phenylbenzofuran-2-carboxamide and N-Phenylbenzo[b]thiophene-2-carboxamide Promote Beta-Amyloid (Aβ42) Aggregation and Mitigate Neurotoxicity. ACS Chem Neurosci. 2023 Dec 6;14(23):4185-4198.

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