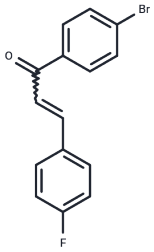
Data Sheet (Cat.No.T77578)

TargetMol

CHBO4

Chemical Properties



CAS No. : 98991-32-3

Formula: C15H10BrFO

Molecular Weight: 305.14

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	CHBO4 is an hMAO-B inhibitor that is potent, reversible, competitive and selective.The IC50 value of CHBO4 against hMAO-B in the CHBO assay was 0.031 μM, and the Ki value was 0.010 ± 0.005 μM.CHBO4 reduces cellular damage by scavenging intracellular reactive oxygen species (ROS), and can be used to study Parkinson's disease (PD).
Targets(IC50)	MAO,Reactive Oxygen Species,Monoamine Oxidase,ROS

Solubility Information

Solubility	DMSO: 55 mg/mL (180.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2772 mL	16.3859 mL	32.7718 mL
5 mM	0.6554 mL	3.2772 mL	6.5544 mL
10 mM	0.3277 mL	1.6386 mL	3.2772 mL
50 mM	0.0655 mL	0.3277 mL	0.6554 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

Thomas Parambi DG, et al. Halogenated class of oximes as a new class of monoamine oxidase-B inhibitors for the treatment of Parkinson's disease: Synthesis, biochemistry, and molecular dynamics study. Comput Biol Chem. 2023;105:107899.

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