

TFSeB

Chemical Properties

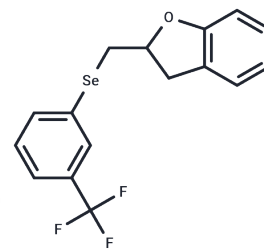
CAS No. : 3017240-62-6

Formula: C₁₆H₁₃F₃OSe

Molecular Weight: 357.23

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	TFSeB is a neuroprotective agent. It reduces STZ-induced MAO-B and AChE activity. TFSeB exerts its neuroprotective effects by increasing the expression of BCL-2, BDNF, and NRF2, while decreasing BAX expression. It also reduces lipid peroxidation (TBARS) and reactive oxygen species (ROS) levels. Additionally, TFSeB alleviates neuroinflammation and is applicable in Alzheimer's disease research.
Targets(IC50)	Bcl-2 Family, NF-κB, Cholinesterase (ChE), Monoamine Oxidase, ROS
In vivo	TFSeB (1 mg/kg or 5 mg/kg; i.g.; administered once daily for 20 days) demonstrates neuroprotective effects in male Swiss mice, improving cognitive impairment, reducing oxidative stress and neuroinflammation, and modulating the activity of neurotransmitter-related enzymes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7993 mL	13.9966 mL	27.9932 mL
5 mM	0.5599 mL	2.7993 mL	5.5986 mL
10 mM	0.2799 mL	1.3997 mL	2.7993 mL
50 mM	0.056 mL	0.2799 mL	0.5599 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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