

## Monoamine Oxidase B inhibitor 1

## Chemical Properties

CAS No. :

Formula: C<sub>18</sub>H<sub>15</sub>F<sub>03</sub>

Molecular Weight: 298.31

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	Monoamine Oxidase B inhibitor 1 is a potent, reversible, orally active, and selective monoamine oxidase B (MAO-B) inhibitor (IC <sub>50</sub> = 0.02 nM) capable of crossing the blood-brain barrier (BBB). It exhibits antioxidant and anti-neuroinflammatory activities and can be used in the study of Parkinson's disease[1].
Targets(IC <sub>50</sub> )	Others, Monoamine Oxidase
In vitro	In cellular assays, the Monoamine Oxidase B inhibitor 1 (compound 14a; 0.5-10.0 μM) was shown to markedly reduce the levels of NO and TNF-α in LPS-induced BV-2 cells [1].
In vivo	In both acute and subacute MPTP-induced Parkinson's disease mouse models, Monoamine Oxidase B Inhibitor 1 (compound 14a; 6-37.4 mg/kg; orally administered) significantly ameliorated most behavioral disorders, restored dopamine levels and reduced MDA levels in the striatum of mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3522 mL	16.7611 mL	33.5222 mL
5 mM	0.6704 mL	3.3522 mL	6.7044 mL
10 mM	0.3352 mL	1.6761 mL	3.3522 mL
50 mM	0.067 mL	0.3352 mL	0.6704 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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