

Monoamine Oxidase B inhibitor 2

Chemical Properties

CAS No. :

Formula: C₁₉H₁₉F₀₃

Molecular Weight: 314.35

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 2 is a potent, reversible, orally active, and selective inhibitor of monoamine oxidase B (MAO-B) with an IC ₅₀ of 1.33 nM, capable of crossing the blood-brain barrier (BBB). It exhibits antioxidant and anti-neuroinflammatory activities and is useful in the study of Parkinson's disease [1].
Targets(IC50)	Others, Monoamine Oxidase
In vitro	In cellular assays, Monoamine Oxidase B Inhibitor 2 (compound 8f; concentration range: 0.5-10.0 μM) markedly reduced the levels of NO and TNF-α in LPS-induced BV-2 cells [1].
In vivo	In an in vivo acute and subacute MPTP-induced mouse model of Parkinson's disease, Monoamine Oxidase B inhibitor 2 (compound 8f; 6.3-39.5 mg/kg; orally administered) significantly ameliorated most behavioral disorders, restored dopamine levels, and reduced MDA content in the striatum of mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1812 mL	15.9058 mL	31.8117 mL
5 mM	0.6362 mL	3.1812 mL	6.3623 mL
10 mM	0.3181 mL	1.5906 mL	3.1812 mL
50 mM	0.0636 mL	0.3181 mL	0.6362 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481