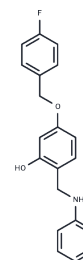


MAO-B-IN-22

Chemical Properties

CAS No. :	2902600-76-2
Formula:	C ₂₀ H ₁₈ FNO ₂
Molecular Weight:	323.36
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	MAO-B-IN-22 (compound 6h) is a potent MAO-B inhibitor with an IC ₅₀ value of 0.014 μM, exhibiting significant antioxidant activity, effective metal-chelating properties, adequate BBB permeability, and notable neuroprotective effects [1].
Targets(IC ₅₀)	Monoamine Oxidase
In vitro	MAO-B-IN-22 (compound 6h) demonstrated dose-dependent protection against hydrogen peroxide-induced oxidative damage, enhancing cell viability at concentrations of 2.5 to 50 μM over 24 hours [1]. At lower concentrations of 0.5 to 10 μM, it reduced LPS-induced NO production in a dose-dependent manner, indicating anti-neuroinflammatory activity [1].
In vivo	MAO-B-IN-22 (compound 6h) (53.5 mg/kg, administered via oral gavage once daily for three weeks) can alleviate motor impairments in mice by inhibiting MAO-B, increasing dopaminergic neurotransmitter levels, and reducing oxidative damage caused by reactive oxygen species (ROS), potentially mitigating motor dysfunction induced by MPTP and improving symptoms of Parkinson's disease (PD) in vivo [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0925 mL	15.4626 mL	30.9253 mL
5 mM	0.6185 mL	3.0925 mL	6.1851 mL
10 mM	0.3093 mL	1.5463 mL	3.0925 mL
50 mM	0.0619 mL	0.3093 mL	0.6185 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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