

MAO-B-IN-4

Chemical Properties

CAS No. :

Formula: C₂₃H₂₀ClF₂N₃

Molecular Weight: 411.87

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-4 (Compound 26) is a reversible monoamine oxidase B (MAO-B) inhibitor with potent in vitro activity, characterized by an IC ₅₀ value of 9 nM. This orally active compound exhibits favorable metabolic stability, a satisfactory safety profile, and effective brain permeability. Demonstrating antidepressant effects in rodent models, MAO-B-IN-4 is suitable for research into Alzheimer's disease [1].
Targets(IC ₅₀)	Monoamine Oxidase
In vitro	MAO-B-IN-4, at a concentration of 0.25 μM when exposed to 0.5μM DOX for 24 hours, exhibited significant neuroglial protective effects in cultured astrocytic cell models [1].
In vivo	MAO-B-IN-4 (1 and 3 mg/kg, orally, 2 h) can prevent scopolamine-induced short-term memory impairment [1]. MAO-B-IN-4 (0.312-2.5 mg/kg, intravenous injection, 1 h) exhibits antidepressant-like properties in mice during the forced swim test [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.428 mL	12.1398 mL	24.2795 mL
5 mM	0.4856 mL	2.428 mL	4.8559 mL
10 mM	0.2428 mL	1.214 mL	2.428 mL
50 mM	0.0486 mL	0.2428 mL	0.4856 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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