

MAO-B-IN-17

Chemical Properties

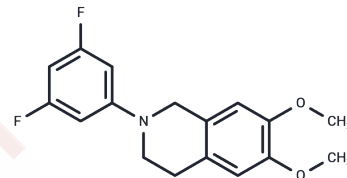
CAS No. : 2890188-81-3

Formula: C₁₇H₁₇F₂N₂O₂

Molecular Weight: 305.32

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-17 is a selective and potent monoamine oxidase B (MAO-B) inhibitor (IC ₅₀ : 5.08 μM) used in the study of central nervous system disorders, including Parkinson's.
Targets(IC ₅₀)	MAO, Monoamine Oxidase
In vitro	Under the conditions of 10 μM concentration and 24 hours of exposure, MAO-B-IN-17 (Compound 4j) exhibits no cytotoxic effects on human neuroblastoma cells [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (327.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (13.1 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2753 mL	16.3763 mL	32.7525 mL
5 mM	0.6551 mL	3.2753 mL	6.5505 mL
10 mM	0.3275 mL	1.6376 mL	3.2753 mL
50 mM	0.0655 mL	0.3275 mL	0.6551 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.

Reference

Makito Yamada, et al. Design, Synthesis, and Monoamine Oxidase B Selective Inhibitory Activity of N-Arylated Heliamine Analogues. ACS Med. Chem. Lett. 2022.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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