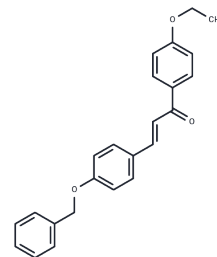


hMAO-B-IN-5

Chemical Properties

CAS No. :	358343-63-2
Formula:	C ₂₄ H ₂₂ O ₃
Molecular Weight:	358.43
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	hMAO-B-IN-5 is a potent reversible and selective human monoamine oxidase hMAO-B inhibitor (IC ₅₀ :0.12μM). hMAO-B-IN-5 can cross the blood-brain barrier and can be used in the study of Parkinson's disease. It is a promising compound in the treatment and diagnosis of central nervous system diseases.
Targets(IC ₅₀)	MAO, Monoamine Oxidase
In vivo	hMAO-B-IN-5 can pass through the blood-brain barrier and can be used in the research of neurodegenerative diseases.[1]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (76.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7899 mL	13.9497 mL	27.8995 mL
5 mM	0.558 mL	2.7899 mL	5.5799 mL
10 mM	0.279 mL	1.395 mL	2.7899 mL
50 mM	0.0558 mL	0.279 mL	0.558 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

Sudevan ST, et al. Introduction of benzyloxy pharmacophore into aryl/heteroaryl chalcone motifs as a new class of monoamine oxidase B inhibitors. Sci Rep. 2022;12(1):22404.

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