

hMAO-B/MB-COMT-IN-2

Chemical Properties

CAS No. :

Formula: C17H18N2O3

Molecular Weight: 298.34

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/MB-COMT-IN-2 is a dual inhibitor of MAO-B/MB-COMT with IC50s of 4.27 μ M and 2.69 μ M for hMAO-B and MB-COMT, respectively. hMAO-B/MB-COMT-IN-2 protects cells from oxidative damage and can be used in neurodegeneration disease research, such as Parkinson's Disease (PD) [1].
Targets(IC50)	Others, Monoamine Oxidase, Transferase
In vitro	hMAO-B/MB-COMT-IN-2 (compound 8) exerts several effects on differentiated SH-SY5Y cells: at 50 μ M over 24 hours, it reduces resazurin reduction and induces lysosomal toxicity via reactive oxygen species (ROS) production; at 10 μ M for 30 minutes, it shows significant cytoprotective properties against t-BHP. It crosses the blood-brain barrier (BBB) via passive diffusion, confirmed by the PAMPA-BBB kit. Additionally, it has a good safety profile in SK-N-SH cells at 30-50 μ M over 24 hours [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3519 mL	16.7594 mL	33.5188 mL
5 mM	0.6704 mL	3.3519 mL	6.7038 mL
10 mM	0.3352 mL	1.6759 mL	3.3519 mL
50 mM	0.067 mL	0.3352 mL	0.6704 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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