

## MAO-B-IN-18

## Chemical Properties

CAS No. :

Formula: C<sub>25</sub>H<sub>22</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 458.47

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-18 is a potent, selective inhibitor of MAO B with IC <sub>50</sub> values of 52 nM for hMAO B and 14 μM for hMAO A. It exhibits cytoprotective effects against hydrogen peroxide-induced damage in neuroblastoma and astrocyte cultures [1].
Targets(IC <sub>50</sub> )	Monoamine Oxidase
In vitro	MAO-B-IN-18 (Compound 20; 0.1, 0.5, 1, 5 μM) protects neuroblastoma cells in SH-SY5Y cultures from pro-oxidative damage through a pathway involving moderate ROS scavenging [1]. When co-incubated with hydrogen peroxide (400 μM), MAO-B-IN-18 (5 μM) sustains the viability of DI TNC1 astrocyte cell lines at levels comparable to those of the positive control quercetin at a high dose (75 μM) [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1812 mL	10.9058 mL	21.8117 mL
5 mM	0.4362 mL	2.1812 mL	4.3623 mL
10 mM	0.2181 mL	1.0906 mL	2.1812 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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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