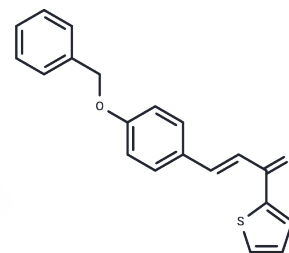


## hMAO-B-IN-4

## Chemical Properties

CAS No. :	1666119-75-0
Formula:	C <sub>20</sub> H <sub>16</sub> O <sub>2</sub> S
Molecular Weight:	320.4
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-4 is a selective, reversible and blood-brain barrier (BBB) penetrable inhibitor of human monoamine oxidase-B (hMAO-B, IC <sub>50</sub> =0.067 μM, K <sub>i</sub> = 0.03 μM, hMAO-A, IC <sub>50</sub> = 33.82 μM).
Targets(IC <sub>50</sub> )	MAO, Monoamine Oxidase
In vitro	hMAO-B-IN-4 (0-40 μM) shows high selectivity for hMAO-B over hMAO-A, with an SI value of 504.791, and inhibits hMAO-A and hMAO-B with IC <sub>50</sub> values of 33.821 μM and 0.067 μM, respectively[1].

## Solubility Information

Solubility	DMSO: 3.21 mg/mL (10.02 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	3.1211 mL	15.6055 mL	31.211 mL
5 mM	0.6242 mL	3.1211 mL	6.2422 mL
10 mM	0.3121 mL	1.5605 mL	3.1211 mL
50 mM	0.0624 mL	0.3121 mL	0.6242 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 Dec 27;12(1):22404.

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