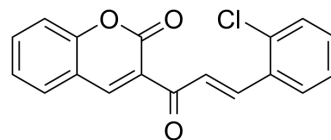


## MAO-B-IN-2

<b>Cat. No.:</b>	HY-132907
<b>CAS No.:</b>	1253978-24-3
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>11</sub> ClO <sub>3</sub>
<b>Molecular Weight:</b>	310.73
<b>Target:</b>	Monoamine Oxidase
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 10 mg/mL (32.18 mM); ultrasonic and warming and heat to 80°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.2182 mL	16.0911 mL	32.1823 mL
		5 mM	0.6436 mL	3.2182 mL	6.4365 mL
		10 mM	0.3218 mL	1.6091 mL	3.2182 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 0.5 mg/mL (1.61 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.5 mg/mL (1.61 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	MAO-B-IN-2 is a selective and competitive inhibitor of MAO-B and BChE with IC <sub>50</sub> values of 0.51 and 7.00 μM, respectively.
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### REFERENCES

[1]. Rehuman NA, et al. Halogenated Coumarin-Chalcones as Multifunctional Monoamine Oxidase-B and Butyrylcholinesterase Inhibitors. ACS Omega. 2021 Oct 12;6(42):28182-28193.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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