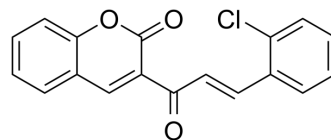


MAO-B-IN-2

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (16.09 mM); ultrasonic and warming and heat to 60°C				
		Solvent	Mass		
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		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.					
In Vivo	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

Description	MAO-B-IN-2 is a selective and competitive inhibitor of MAO-B and BChE with IC ₅₀ 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.

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

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