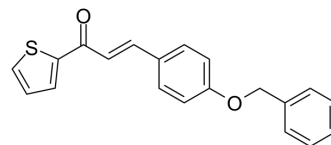


hMAO-B-IN-4

Cat. No.:	HY-152671		
CAS No.:	1666119-75-0		
Molecular Formula:	C ₂₀ H ₁₆ O ₂ S		
Molecular Weight:	320.4		
Target:	Monoamine Oxidase		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (156.05 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	3.1211 mL	15.6055 mL
		5 mM	0.6242 mL	3.1211 mL
		10 mM	0.3121 mL	1.5605 mL
			10 mg	31.2110 mL
				6.2422 mL
				3.1211 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.80 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	hMAO-B-IN-4 (compound B10) is a selective, reversible and blood-brain barrier (BBB) penetrable human monoamine oxidase-B (hMAO-B) inhibitor with an IC ₅₀ value and a K _i value of 0.067 and 0.03 μM, respectively. hMAO-B-IN-4 inhibits hMAO-A with an IC ₅₀ value of 33.82 μM. hMAO-B-IN-4 can be used for Alzheimer's disease (AD) and Parkinson's disease (PD) research ^[1] .
In Vitro	hMAO-B-IN-4 (0-40 μM) shows high selectivity to hMAO-B than hMAO-A with a SI value of 504.791 ^[1] . hMAO-B-IN-4 (0-40 μM) inhibits hMAO-A and hMAO-B with IC ₅₀ values of 33.821 and 0.067 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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