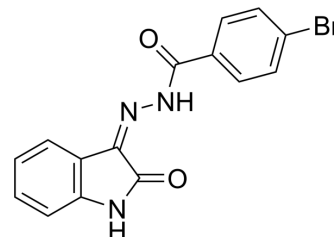


MAO-B-IN-30

Cat. No.:	HY-161240
CAS No.:	82973-15-7
Molecular Formula:	C ₁₅ H ₁₀ BrN ₃ O ₂
Molecular Weight:	344.16
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MAO-B-IN-30 (compound IS7) is a potent, selective and cross the blood-brain barrier MAO-B inhibitor with IC ₅₀ values of 19.176, 0.082 μM for MAO-A and MAO-B, respectively. MAO-B-IN-30 shows antiproliferative activity and non-cytotoxic. MAO-B-IN-30 reduces TNF-alpha, IL-6, NF-kB levels. MAO-B-IN-30 has the potential for the research of Parkinson's disease ^[1] .	
IC₅₀ & Target	MAO-B 0.082 μM (IC ₅₀)	MAO-A 19.176 μM (IC ₅₀)
In Vitro	MAO-B-IN-30 (compound IS7) (0-100 μM) shows antiproliferative activity with IC ₅₀ value of 97.15 μM in SH-SY5Y cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Viability Assay ^[1]	
	Cell Line:	SH-SY5Y cells
	Concentration:	0-100 μM
	Incubation Time:	24 h
	Result:	Inhibited cell growth and non-cytotoxic.

REFERENCES

[1]. Kumar S, Oh JM, Prabhakaran P, Awasti A, Kim H, Mathew B. Isatin-tethered halogen-containing acylhydrazone derivatives as monoamine oxidase inhibitor with neuroprotective effect. Sci Rep. 2024 Jan 13;14(1):1264.

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

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