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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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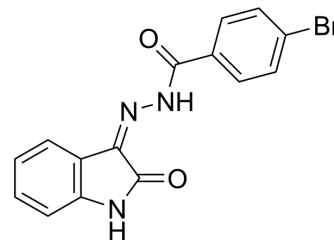
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MAO-B-IN-30

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:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.17 mg/mL (12.12 mM); ultrasonic and warming and heat to 60°C

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9056 mL	14.5281 mL	29.0563 mL
	5 mM	0.5811 mL	2.9056 mL	5.8113 mL
	10 mM	0.2906 mL	1.4528 mL	2.9056 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MAO-B-IN-30 (compound IS7) is a potent, selective and cross the blood-brain barrier MAO-B inhibitor with IC₅₀ 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)
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In Vitro

MAO-B-IN-30 (compound IS7) (0-100 μM) shows antiproliferative activity with IC₅₀ 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.
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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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