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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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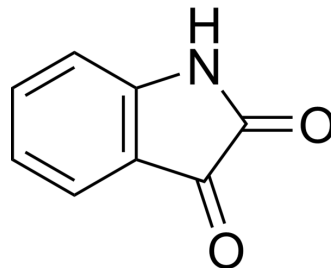
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Isatin (Standard)

Cat. No.:	HY-Y0265R
CAS No.:	91-56-5
Molecular Formula:	C ₈ H ₅ NO ₂
Molecular Weight:	147.13
Target:	Monoamine Oxidase; Apoptosis
Pathway:	Neuronal Signaling; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isatin (Standard) is the analytical standard of Isatin. This product is intended for research and analytical applications. Isatin (Indoline-2,3-dione) is a potent inhibitor of monoamine oxidase (MAO) with an IC ₅₀ of 3 μM. Also binds to central benzodiazepine receptors (IC ₅₀ against clonazepam, 123 μM) ^[1] . Also acts as an antagonist of both atrial natriuretic peptide stimulated and nitric oxide-stimulated guanylate cyclase activity ^[2] . Shows effect on the serotonergic system ^[3] .
IC ₅₀ & Target	IC ₅₀ : 3 μM (MAO B) ^[1]

REFERENCES

- [1]. Glover V, et al. Isatin: Identity with the Purified Endogenous Monoamine Oxidase Inhibitor Tribulin. *Journal of Neurochemistry*, 51(2), 656–659.
- [2]. Igosheva N, et al. Isatin, an endogenous monoamine oxidase inhibitor, triggers a dose- and time-dependent switch from apoptosis to necrosis in human neuroblastoma cells. *Neurochem Int.* 2005 Aug;47(3):216-24.
- [3]. McIntyre IM, et al. Serotonergic effects of isatin: an endogenous MAO inhibitor related to tribulin. *J Neural Transm Gen Sect.* 1990;79(1-2):35-40.

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

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