



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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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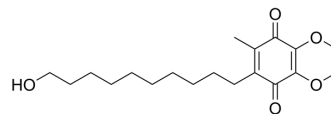
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Idebenone (Standard)

Cat. No.:	HY-N0303R
CAS No.:	58186-27-9
Molecular Formula:	C ₁₉ H ₃₀ O ₅
Molecular Weight:	338.44
Target:	Mitochondrial Metabolism; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Idebenone (Standard) is the analytical standard of Idebenone. This product is intended for research and analytical applications. Idebenone, a well-appreciated mitochondrial protectant, exhibits protective efficacy against neurotoxicity and can be used for the research of Alzheimer's disease, Huntington's disease. Idebenone (oxidised form) has a dose-dependent inhibitory effect on the enzymatic metabolism of arachidonic acid in astroglial homogenates (IC₅₀=16.65 μM)^[1]. Idebenone, a coenzyme Q10 analog and an antioxidant, induces apoptotic cell death in the human dopaminergic neuroblastoma SHSY-5Y cells^[2]. Idebenone quickly crosses the blood-brain barrier.

REFERENCES

- [1]. G Civenni, et al. Inhibitory effect of the neuroprotective agent idebenone on arachidonic acid metabolism in astrocytes. *Eur J Pharmacol.* 1999 Apr 9;370(2):161-7.
- [2]. Kwok-Keung Tai, et al. Idebenone induces apoptotic cell death in the human dopaminergic neuroblastoma SHSY-5Y cells. *Neurotox Res.* 2011 Nov;20(4):321-8.

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

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