

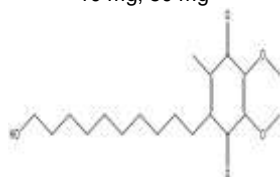
## PRODUCT: Idebenone

**ALTERNATE NAME:** 2-(10-hydroxydecyl)-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4-dione; CV-2619; Mnesis

**CATALOG #:** B2311-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>19</sub>H<sub>30</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 338.4

**CAS NUMBER:** 58186-27-9

**APPEARANCE:** Yellow to dark orange solid

**SOLUBILITY:** DMSO (~25 mg/ml)

**PURITY:** ≥98%

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Idebenone is a benzoquinone analog of coenzyme Q<sub>10</sub> that serves as a cofactor in the electron transport chain in mitochondria. Idebenone acts as a potent lipid antioxidant that prevents the generation of free radicals. Idebenone targets mitochondria, preserves mitochondrial function, and confers cytoprotection. In this way, idebenone has neuroprotective effects and has applications in Friedreich ataxia.

**REFERENCE:** Heitz, F.D., et al. (2012). *PLoS One* 7, e45182.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

### RELATED PRODUCTS:

N-Acetyl-4-benzoquinone Imine (**B2306**)

Baicalein (**B2309**)

L-Buthionine-(S,R)-Sulfoximine (**B2305**)

Coenzyme Q10 (**B2310**)

Erastin (**2231**)

EZSolution™ Erastin (**B1502**)

Ferrostatin-1 (**2230**)

FIN56 (**B2308**)

Glutathione ethyl ester (**B2307**)

Glutathione Peroxidase Colorimetric Assay Kit (**K762**)

Idebenone (**B2311**)

ML-162 (**B2304**)

RSL3 (**B2303**)

**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**