



LKT Laboratories, Inc.

Idebenone

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Product Information

Product ID I1418

CAS No. 58186-27-9

Chemical Name 2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4-benzoquinone

Synonym Avan, Daruma, Mnesis

Formula C₁₉H₃₀O₅

Formula Wt. 338.44

Melting Point 46-50 °C

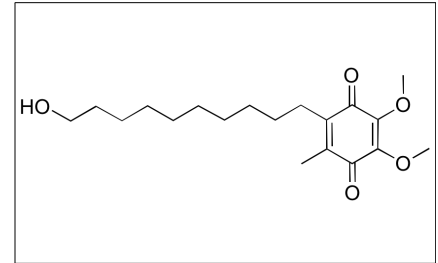
Purity ≥98%

Solubility Soluble in organic solvents.
Practically insoluble in water.

Store Temp 4 °C

Ship Temp Ambient

Description Idebenone is a synthetic quinone coenzyme Q (CoQ) analog that promotes mitochondrial respiration, increases ATP production, and inhibits lipoperoxide formation. Idebenone exhibits antioxidative, neuroprotective, cognition enhancing, cardioprotective, anti-inflammatory, and anti-fibrotic activities. In subjects with Alzheimer's disease and in animal models of scopolamine-induced memory deficit, idebenone improves cognitive function and daily living aspects. Additionally, idebenone improves neurological function in subjects with Friedreich's ataxia. In animal models of Duchennes Muscular Dystrophy (DMD), idebenone decreases cardiac inflammation and fibrosis and improves cardiac diastolic function and exercise performance.



Bulk quantities available upon request

Product ID	Size
I1418	10 mg
I1418	25 mg
I1418	100 mg

References Buyse GM, Van der Mieren G, Erb M, et al. Long-term blinded placebo-controlled study of SNT-MC17/idebenone in the dystrophin deficient mdx mouse: cardiac protection and improved exercise performance. *Eur Heart J.* 2009 Jan;30(1):116-24. PMID: 18784063.

Di Prospero NA, Baker A, Jeffries N, et al. Neurological effects of high-dose idebenone in patients with Friedreich's ataxia: a randomised, placebo-controlled trial. *Lancet Neurol.* 2007 Oct;6(10):878-86. PMID: 17826341.

Gutzmann H, Kühl KP, Hadler D, et al. Safety and efficacy of idebenone versus tacrine in patients with Alzheimer's disease: results of a randomized, double-blind, parallel-group multicenter study. *Pharmacopsychiatry.* 2002 Jan;35(1):12-8. PMID: 11819153.

Liu XJ, Wu WT. Effects of ligustrazine, tanshinone II A, ubiquinone, and idebenone on mouse water maze performance. *Zhongguo Yao Li Xue Bao.* 1999 Nov;20(11):987-90. PMID: 11270979.

Suno M, Nagaoka A. Effect of idebenone and various nootropic drugs on lipid peroxidation in rat brain homogenate in the presence of succinate. *Nihon Yakurigaku Zasshi.* 1988 May;91(5):295-9. PMID: 3410376.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.