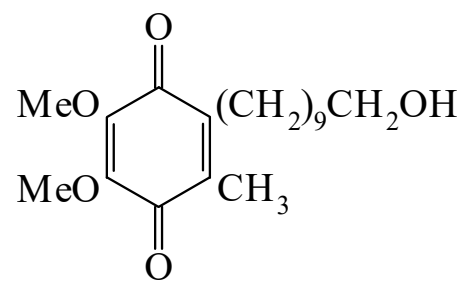




>>Entry Name: Idebenone, INN, JAN

Synonym(s): 2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4-dione, 9Cl. 2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methyl-*p*-benzoquinone. Avan. Cerestabon. Daruma. Esanic. Geniceral. Idesol. Lucenabol. Mnesis. Nemocebral. CV-2619



CAS Registry Number: 58186-27-9

Molecular Formula: C₁₉H₃₀O₅

Molecular Weight: 338.443

Accurate Mass: 338.209325

Percentage Composition: C 67.43%; H 8.93%; O 23.64%

Use/Importance: Free radical scavenger, neuroprotective agent. Drug for enhancement of immune response. Cardiovascular agent, nootropic

Physical Description: Orange needles (petrol)

Development Status: Launched 1986

Melting Point: Mp 46-50°

Calculated Log P Data: Log P 3.23 (calc)

Hazard & Toxicity: LD₅₀ (rat, ipr) 830 mg/kg

References:

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Naguoka, A. *et al.*, *Jpn. J. Pharmacol.*, 1984, **36**, 291
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Wakabayashi, H. *et al.*, *J. Chromatogr.*, 1992, **573**, 154, (*hplc*)
Naito, M. *et al.*, *Artery (Leonidas, Mich.)*, 1993, **20**, 314, (*pharmacol*)
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Gillis, J.C. *et al.*, *Drugs Aging*, 1994, **5**, 133, (*rev*)
Bruno, V. *et al.*, *Neurosci. Lett.*, 1994, **178**, 193, (*pharmacol*)