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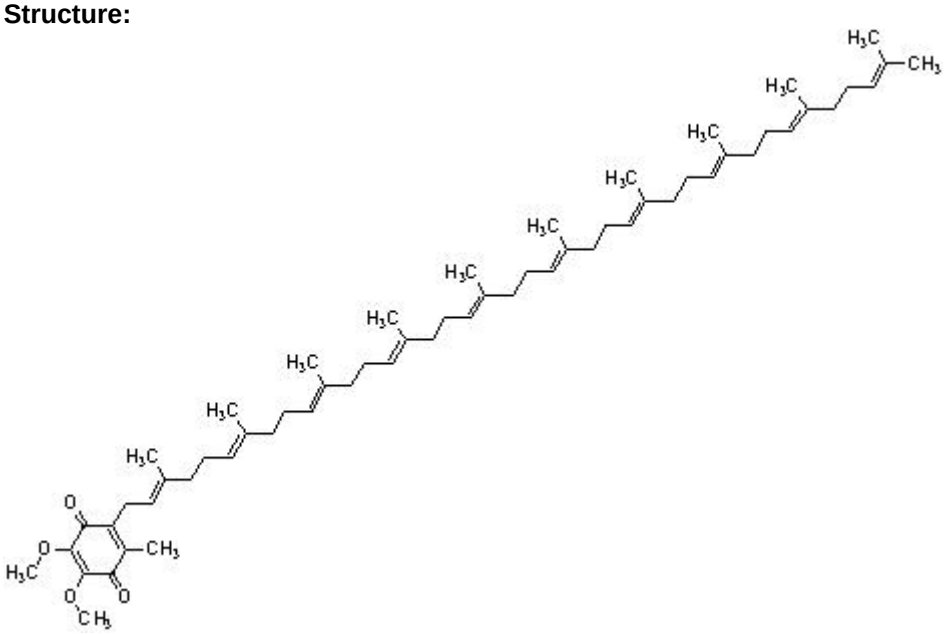
# TECHNICAL INFORMATION

Catalog Number: 195108, 199024, 199680
**Coenzyme Q10**

**Structure:**



**Molecular Formula:** $C_{59}H_{90}O_4$
**Molecular Weight:** 863.4
**CAS #:** 303-98-0
**Synonyms:** Ubiquinone 50; Q-10; Ubiquinone 10; Ubidecarenone
**Physical Description:** Yellow to orange crystalline powder
**Solubility:** Soluble in chloroform (50 mg/ml - clear to slightly hazy, yellow to orange solution), ethanol or lipids; practically insoluble in water
**Description:** An endogenous cellular antioxidant. An essential component of the electron transport in mitochondria.
**Availability:**

| Catalog Number | Description | Size |
|---|---|---|
| 195108 | Coenzyme Q10, from bovine heart | 5 mg<br>25 mg |
| 199024 | Coenzyme Q10, synthetic | 25 mg<br>100 mg<br>500 mg<br>1 g |
| 199680 | Coenzyme Q10, from fermentation | 100 mg<br>500 mg<br>1 g |

**References:**

– *Merck Index*, **12th Ed.**, No. 9974.
– Beal, "Coenzyme Q10 administration and its potential for treatment of neurodegenerative diseases." *Biofactors*, **v. 9**, 261-266 (1999).
– Hoppe, et al., "Coenzyme Q10, a cutaneous antioxidant and energizer." *Biofactors*, **v. 9**, 371-378 (1999).
– Lenaz, G. (ed.), *Coenzyme Q: Biochemistry, Bioenergetics and Clinical Applications of Ubiquinone*, John Wiley & Sons: New York (1985).
– Miyake, Y., et al., "Effect of treatment with 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors on serum coenzyme Q10 in diabetic patients." *Arzneim. Forsch.*, **v. 49:4**, 324 (1999).