

## Product Data Sheet

Product Name: Coenzyme Q2

Cat. No.: GC43297

### Chemical Properties

Cas. No. 606-06-4

SMILES O=C(C(OC)=C1OC)C(C)=C(C/C=C(CC/C=C(C)/C)\C)C1=O

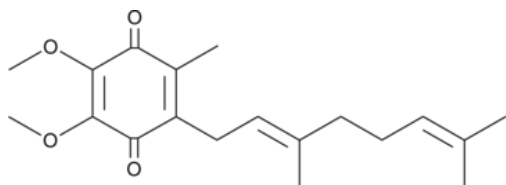
Formula C<sub>19</sub>H<sub>26</sub>O<sub>4</sub> M.Wt 318.4

Solubility DMF: 10 mg/ml, Ethanol: 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Coenzyme Q10 is a component of the electron transport chain and participates in aerobic cellular respiration, generating energy in the form of ATP. In its reduced form, it acts as an antioxidant. Coenzyme Q2 is a precursor of coenzyme Q10 that has 2, rather than 10, isoprenoid units on the ubiquinone base. It can act as an electron acceptor for bacterial Complex I. In mammalian cells, exogenous coenzyme Q2 prevents the production of reactive oxygen species associated with Complex I activity. Forms of coenzyme Q with shorter isoprenoid chains, including coenzyme Q2, induce p53-dependent apoptosis in human B-cell acute lymphoblastoid leukemia BALL-1 cells.

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

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