

Product Data Sheet

Product Name: Decylubiquinone

Cat. No.: GC40538

Chemical Properties

Cas. No. 55486-00-5

Chemical Name 2-decyl-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4-dione

SMILES COC(C(C(CCCCCCCCCC)=C1C)=O)=C(OC)C1=O

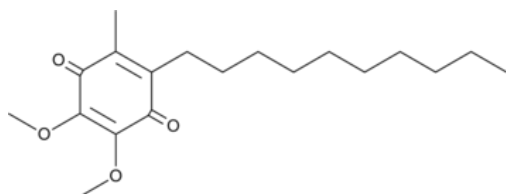
Formula C₁₉H₃₀O₄ M.Wt 322.4

Solubility 10mg/mL in DMSO, or in DMF 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

Decylubiquinone is an analog of ubiquinone. It blocks reactive oxygen species production in response to glutathione depletion and inhibits activation of the mitochondrial permeability transition.

[1] Decylubiquinone inhibited opening of the mitochondrial permeability transition pore in response to calcium overload in rat liver mitochondria in different cell lines at concentrations between 50-100 μM.

[2]

Reference:

[1]. Armstrong, J.S., Whiteman, M., Rose, P., et al. The Coenzyme Q10 analog decylubiquinone inhibits the redox-activated mitochondrial permeability transition: Role of mitochondrial complex III. J. Biol. Chem. 278(49), 49079-49084 (2003).

[2]. Devun, F., Walter, L., Belliere, J., et al. Ubiquinone analogs: A mitochondrial permeability

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

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transition pore-dependent pathway to selective cell death. PLoS One 5(7), (2010).

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