

Product Data Sheet

Product Name: (±)-γ-Tocopherol

Cat. No.: GC40260

Chemical Properties

Cas. No. 7616-22-0

SMILES OC1=CC(CCC(CCCC(CCCC(CCCC(C)C)C)C)(C)O2)=C2C(C)=C1C

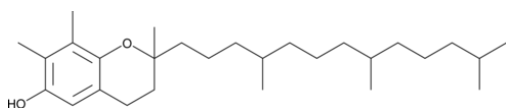
Formula C28H48O2 M.Wt 416.7

Solubility Chloroform: Soluble; Ethanol: Soluble; Hexane: Soluble; Methanol: Soluble
Storage -20°C, protect from light

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

(±)-γ-Tocopherol is a form of vitamin E with antioxidant and anti-inflammatory properties. It traps and detoxifies reactive nitrogen oxide species, including nitrogen dioxide, in cell-free assays. It also reduces the synthesis of prostaglandin E2 induced by LPS in RAW 264.7 macrophages and by IL-1β in A549 cells (IC50s = 7.5 and 4 μM, respectively). (±)-γ-Tocopherol (10 μM) inhibits LPS-induced nitrite release and inducible nitric oxide synthase (iNOS) expression in RAW 264.7 cells and reduces COX-2 activity in A549 cells pretreated with IL-1β. Serum levels of (±)-γ-tocopherol are decreased in patients with cardiovascular disease.

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

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