

Product Data Sheet

Product Name: D-β-Tocopherol

Cat. No.: GF13825

Chemical Properties

Cas. No. 16698-35-4

Formula C₂₈H₄₈O₂

M.Wt 416.68

Solubility DMSO : 100 mg/mL (239.99 mM;
Need ultrasonic)

Storage -20C

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

尾-Tocopherol is an analogue of vitamin E, exhibits antioxidant properties. 尾-Tocopherol can inhibit tyrosinase activity and melanin synthesis. 尾-Tocopherol also can prevent the inhibition of cell growth and of PKC activity caused by d-alpha-tocopherol.

[1]. Azzi A, et, al. d-alpha-tocopherol control of cell proliferation. Mol Aspects Med. 1993; 14(3): 265-71.

[2]. Tasinato A, et, al. d-alpha-tocopherol inhibition of vascular smooth muscle cell proliferation

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

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occurs at physiological concentrations, correlates with protein kinase C inhibition, and is independent of its antioxidant properties. Proc Natl Acad Sci U S A.

[3]. Kamei Y, et, al. Comparison of the inhibitory effects of vitamin E analogues on melanogenesis in mouse B16 melanoma cells. Cytotechnology. 2009 Apr; 59(3): 183-90.

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