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

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.

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