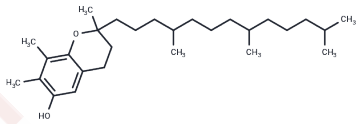
Data Sheet (Cat.No.T68738)

TargetMol

(±)-γ-Tocopherol

Chemical Properties



CAS No. : 7616-22-0

Formula: C28H48O2

Molecular Weight: 416.68

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	(±)-γ-Tocopherol is an endogenous metabolite and form of vitamin E with antioxidant and anti-inflammatory properties that reduces prostaglandin (PGE2) synthesis induced by LPS and IL-1β.
Targets(IC50)	Endogenous Metabolite,Immunology/Inflammation related,Prostaglandin Receptor
In vitro	(±)-γ-Tocopherol (10 μM) inhibits LPS-induced nitrite release and iNOS expression in RAW 264.7 cells, and reduces COX-2 activity in IL-1β-pretreated A549 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3999 mL	11.9996 mL	23.9992 mL
5 mM	0.480 mL	2.3999 mL	4.7998 mL
10 mM	0.240 mL	1.200 mL	2.3999 mL
50 mM	0.048 mL	0.240 mL	0.480 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jiang Q, et al. gamma-tocopherol, the major form of vitamin E in the US diet, deserves more attention. Am J Clin Nutr. 2001;74(6):714-722.

Cooney RV, et al. Gamma-tocopherol detoxification of nitrogen dioxide: superiority to alpha-tocopherol. Proc Natl Acad Sci U S A. 1993;90(5):1771-1775.

Jiang Q, et al. gamma-tocopherol and its major metabolite, in contrast to alpha-tocopherol, inhibit cyclooxygenase activity in macrophages and epithelial cells. Proc Natl Acad Sci U S A. 2000;97(21):11494-11499.

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