



DL-alpha-Tocopherol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: DL-alpha-Tocopherol

Catalog No.: CFN90041

Cas No.: 59-02-9

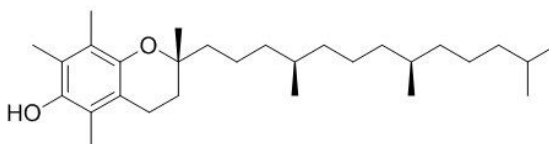
Purity: >=99%

M.F: C₂₉H₅₀O₂

M.W: 430.7

Physical Description: Oil

Synonyms: (+)- α -Tocopherol; Vitamin E.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Others.

[Source]

The herbs of *Isodon adenantha*.

[Biological Activity or Inhibitors]

Treatment with the antioxidant dl-alpha-tocopherol can prevent cardiomyocyte/capillary mismatch, and to some extent also myocardial fibrosis in rats with renal failure.^[1]

DL-alpha-tocopherol acetate protects endothelial cell membranes from oxidative damage and disruption and limits the magnitude of haemorrhage and its spread from the subependyma into the ventricles.^[2]

DL-alpha-tocopherol protects human skin fibroblasts against the cytotoxic effect of UVB, and its mechanism seems to be related to inhibition of UV-induced lipid peroxidation or to the antioxidation effect of dl-alpha-tocopherol. ^[3]

DL-alpha-tocopherol, a potent inhibitor of phorbol ester induced shape change of erythro- and megakaryoblastic leukemia cells.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-Methanol-Chloroform=60:25:15, containing 0.01% Tert-butylated hydroxytoluene.

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 294 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Amann K, Törnig J, Buzello M, *et al. Kidney Int.*, 2002, 62(3):877-84.

[2] Chiswick M L, Johnson M, Woodhall C, *et al. Brit. Med. J.*, 1983, 287(6385):81-4.

[3] Kondo S, Mamada A, Yamaguchi J, *et al. Photodermatol. Photoimmunol .Photomed.*, 1990 ,7(4):173-7.

[4] Steiner M, Li W, Ciaramella J M, *et al. J. Cell. Physiol.*, 1997, 172(3):351-60.

[5] Karppi J, Nurmi T, Olmedilla-Alonso B, *et al. J. Chromatogr. B*, 2008, 867(2):226-32.

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