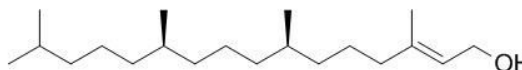


Phytol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Phytol**Catalog No.:** CFN99630**Cas No.:** 150-86-7**Purity:** > 98%**M.F:** C₂₀H₄₀O**M.W:** 296.53**Physical Description:** Oil**Synonyms:** (E)-3,7,11,15-Tetramethyl-2-hexadecen-1-ol; (E)-phytol; 2,6,10,14-Tetramethylhexadec-14-en-16-ol; 3,7,11,15-Tetramethyl-, [R-(R*,R*-(E))]-2-Hexadecen-1-ol; Plantalcohol.

[Intended Use]

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

[Source]

The leaves of *Black tea*.

[Biological Activity or Inhibitors]

Phytol and sitosterol, isolated from methanolic extract of *Lacistema pubescens*, may have antileishmanial and cytotoxicity activities.^[1]

E-phytol and beta-damascenone have antispasmodic activity.^[2]

(E)-phytol has antimycobacterial activity against *Mycobacterium tuberculosis* with a minimum inhibitory concentration (MIC) of 2 micrograms/ml. ^[3]

Phytol has been identified as a peroxisome proliferator-activated receptor (PPAR)alpha-specific activator, phytol can stimulate the expression of PPARalpha-target genes in intact cells, because PPARalpha activation enhances circulating lipid clearance, phytol may be important in managing abnormalities in lipid metabolism.^[4]

[Solvent]

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

[HPLC Method]^[1]

Mobile phase: Methanol- Acetonitrile=70:30 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Da S J, Antinarelli L M, Pinto N C, et al. *Biomed Res. Int.*, 2014(3):545038-545038.

[2] Pongprayoon U, Baeckström P, Jacobsson U, et al. *Planta Med.*, 1992, 58(1):19-21.

[3] Rajab M S, Cantrell C L, Franzblau S G, et al. *Planta Med.*, 1998, 64(1):2-4.

[4] Goto T, Takahashi N, Kato S, et al. *Biochem. Biophys. Res. Commun.*, 2005, 337(2):440-5.

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