

alpha-Tocopherolquinone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: alpha-Tocopherolquinone

Catalog No.: CFN97235

Cas No.: 7559-04-8

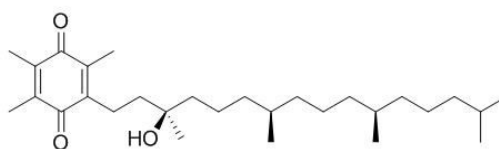
Purity: > 95%

M.F: C₂₉H₅₀O₃

M.W: 446.7

Physical Description: Yellow oil

Synonyms:2-(3-hydroxy-3,7,11,15-tetramethylhexadecyl)-3,5,6-trimethylcyclohexa-2,5-diene-1,4-dione;D-α-Tocopherylquinone.



[Intended Use]

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

[Source]

The herbs of *Isodon adenantha*.

[Biological Activity or Inhibitors]

α -Tocopherol quinone can attenuate A β 42-induced neurotoxicity toward SH-SY5Y neuroblastoma cells, disaggregate preformed fibrils and interfere with natural intracellular A β oligomer formation; it also can decrease the formation of reactive oxygen species (ROS) and NO, and modulate the production of cytokines by decreasing TNF- α and IL-1 β and increasing IL-4 formation in microglia; thus, α -tocopherol quinone targeting multiple pathogenetic factors deserves further investigation for prevention and treatment of Alzheimer's disease (AD).^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Methanol -H₂O=98:2 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 265 nm.

[Storage]

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

[References]

[1] Yang S G, Wang W Y, Ling T J, *et al. Neurochem. Int.*, 2010, 57(8):914-22.

[2] Vatassery G T, Smith W E. *Anal. Biochem.*, 1987, 167(2):411-7.

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