

Squalene Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Squalene

Catalog No.: CFN99208

Cas No.: 111-02-4

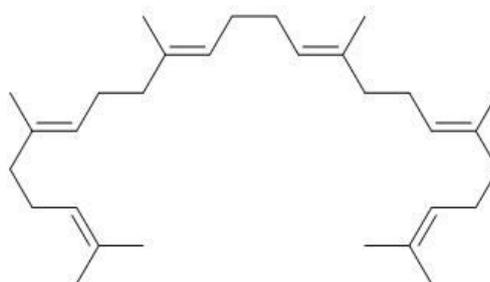
Purity: > 98%

M.F: C₃₀H₅₀

M.W: 410.7

Physical Description: Oil

Synonyms: 2,6,10,15,19,23-Hexamethyl-2,6,10,14,18,22-tetracosahexaene; Spinacene.



[Intended Use]

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

[Source]

The herbs of *Catharanthus roseus*.

[Biological Activity or Inhibitors]

Squalene can significantly suppress colonic aberrant crypt foci (ACF) formation and crypt multiplicity strengthens the hypothesis that squalene possesses chemopreventive activity against colon carcinogenesis.^[1]

Squalene is an inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase activity and has been proposed to inhibit the farnesylation of ras oncoproteins, it can effectively inhibit NNK-induced lung tumorigenesis.^[2]

Squalene has cardioprotective effect, it exerts an antioxidant effect against isoproterenol-induced myocardial infarction by blocking the induction of lipid peroxidation, suggests that its cardioprotective effect may be ascribable to its antioxidant property and membrane stabilizing action. ^[3]

Squalene may be efficacious as a cytoprotectant in cyclophosphamide-induced toxicities.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: (Methanol -H₂O=98:2)- Isopropanol, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Rao C V, Newmark H L, Reddy B S. *Carcinogenesis*, 1998, 19(2):287-90.

[2] Smith T, Yang G, Seril D, *et al.* *Carcinogenesis*, 1998, 19(4):703-6.

[3] Sabeena Farvin K H, Anandan R, Kumar S H, *et al. Pharmacol. Res.*, 2004, 50(3): 231-6.

[4] Senthilkumar S, Devaki T, Manohar B M, *et al. Clin. Chim. Acta*, 2006, 364(1-2):335-42.

[5] Yuan C, Ju Y, Jin R, *et al. Chromatographia*, 2014, 78(3-4):273-8.

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