LKT Laboratories, Inc.

Geranylgeraniol

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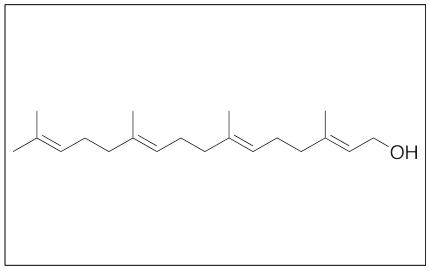
Product Information

Product ID G1869
CAS No. 24034-73-9
Chemical Name 3,7,11,15-Tetramethyl-2,6,10,14-hexadecatraen-1-ol

Synonym all trans-3,7,11-15-Tetramethyl-2,6,10,14-hexadecatetraen- 1-ol

Formula $C_{20}H_{34}O$
Formula Wt. 290.49
Melting Point
Purity ≥95%
Solubility Soluble in chloroform, alcohols, acetone, or ethyl acetate.



Bulk quanitites available upon request

Product ID	Size
G1869	25 mg
G1869	100 mg

Store Temp -20˚C
Ship Temp Blue Ice

Description Geranylgeraniol is a diterpene alcohol that is a cell permeable analog of geranylgeranyl pyrophosphate; it is used in the biosynthesis of vitamin E, vitamin K, and other diterpenes. Geranylgeraniol is a bee pheromone and a substrate for geranylgeranyl transferase. This compound exhibits anticancer, antibacterial, and cytoprotective activities. Geranylgeraniol induces apoptosis and inhibits growth of various tumor cells. Separately, geranylgeraniol inhibits growth of *Mycobacterium* in vitro and protects monocytes against statin-induced cytotoxicity.

References

Campia I, Lussiana C, Pescarmona G, et al. Geranylgeraniol prevents the cytotoxic effects of mevastatin in THP-1 cells, without decreasing the beneficial effects on cholesterol synthesis. Br J Pharmacol. 2009 Dec;158(7):1777-86. PMID: 19888963.

Vik A, James A, Gundersen LL. Screening of terpenes and derivatives for antimycobacterial activity; identification of geranylgeraniol and geranylgeranyl acetate as potent inhibitors of Mycobacterium tuberculosis in vitro. Planta Med. 2007 Oct;73 (13):1410-2. PMID: 17924309.

Shibayama-Imazu T, Sakairi S, Watanabe A, et al. Vitamin K(2) selectively induced apoptosis in ovarian TYK-nu and pancreatic MIA PaCa-2 cells out of eight solid tumor cell lines through a mechanism different from geranylgeraniol. J Cancer Res Clin Oncol. 2003 Jan;129(1):1-11. PMID: 12618894.