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## **Product Information**

Product ID T5608 CAS No. 58864-81-6

**Chemical Name** 

Synonym alpha-tocotrienol

Formula C<sub>29</sub>H<sub>44</sub>O<sub>2</sub> Formula Wt. 424.66 **Melting Point** 

Purity ≥98%

Solubility Soluble in ethanol, hexanes, DMSO, DMF

## Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
T5608	1 mg	\$71.50
T5608	5 mg	\$200.10
T5608	10 mg	\$357.30

Store Temp -20°C Ship Temp Ambient

Description Tocotrienols contain an arene ring, a chromanol ring, and an isoprenoid tail; all tocotrienol compounds contain a methyl group on C8 of the arene ring.

> α-Tocotrienol contains two additional methyl groups arranged around the arene ring, positioned para and ortho to C8. Tocotrienols are members of the vitamin E family, typically found in vegetable oils, nuts, and grains. All tocotrienols exhibit strong antioxidative, anti-angiogenic, anticancer, and anti-hyperlipidemic qualities, although  $\alpha$ -Tocotrienol displays the strongest antioxidative capacity. Tocopherols, common substituents of over-the-counter vitamin E supplements, interfere with tocotrienol activity and show weaker antioxidative effects. Tocotrienols exhibit significant radical recycling abilities in cellular models of lipid peroxidation and oxidative damage and suppress HMG-CoA reductase activity. In vitro, these compounds induce apoptosis through inhibition of Id1, EGFR, and NF-κB; they also inhibit vessel formation and proliferation in aortic endothelial cells.

References Yap WN, Chang PN, Han HY, et al. Gamma-tocotrienol suppresses prostate cancer cell proliferation and invasion through multiple-signalling pathways. Br J Cancer. 2008 Dec 2;99(11):1832-41. PMID: 19002171.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.