



LKT Laboratories, Inc.

(S)-ar-Turmerone

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Product Information

Product ID T8269

CAS No. 532-65-0

Chemical Name

Synonym

Formula $C_{15}H_{20}O$

Formula Wt. 216.32

Melting Point

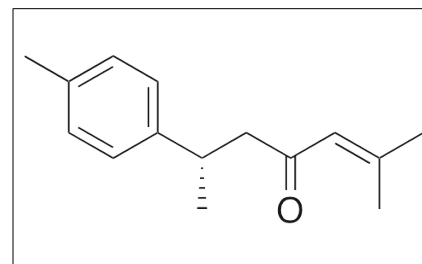
Purity $\geq 97\%$

Solubility Hexane, Petrol ether, Ethanol

Store Temp 4°C

Ship Temp Ambient

Description Aromatic turmerone is a sesquiterpene found in *Curcuma* (turmeric). This compound exhibits anti-inflammatory, anticonvulsant, antifungal, anticancer, and anti-metastatic activities. Aromatic turmerone suppresses production of IL-2 and IFN- γ in T cells. In animal models of chemically-induced seizures, aromatic turmerone limits epileptic activity. Additionally, turmerone also inhibits growth of dermatophytes in various models. In breast cancer cells, this compound decreases phosphorylation of NF- κ B, PI3K, and Akt and suppresses signaling of ERK1/2, inhibiting cellular migration and invasion. In other models, aromatic turmerone does not inhibit tumor growth but does suppress the development of lymphocytic leukemia in improving T and B lymphocyte proliferation. Like other compounds derived from turmeric, aromatic turmerone may indirectly inhibit EGFR.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T8269	1 mg	\$75.00
T8269	5 mg	\$240.00
T8269	10 mg	\$450.00

References Oh S, Han AR, Park HR, et al. Suppression of Inflammatory cytokine production by ar-Turmerone isolated from *Curcuma phaeocaulis*. *Chem Biodivers*. 2014 Jul;11(7):1034-41. PMID: 25044589.

Orellana-Paucar AM, Afrikanova T, Thomas J, et al. Insights from zebrafish and mouse models on the activity and safety of ar-turmerone as a potential drug candidate for the treatment of epilepsy. *PLoS One*. 2013 Dec 13;8(12):e81634. PMID: 24349101.

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Sun M, Ma WN, Guo Y, et al. Simultaneous screening of four epidermal growth factor receptor antagonists from *Curcuma longa* via cell membrane chromatography online coupled with HPLC-MS. *J Sep Sci*. 2013 Jul;36(13):2096-103. PMID: 23640922.

Kim D, Suh Y, Lee H, et al. Immune activation and antitumor response of ar-turmerone on P388D1 lymphoblast cell implanted tumors. *Int J Mol Med*. 2013 Feb;31(2):386-92. PMID: 23229920.

Park SY, Kim YH, Kim Y, et al. Aromatic-turmerone attenuates invasion and expression of MMP-9 and COX-2 through inhibition of NF- κ B activation in TPA-induced breast cancer cells. *J Cell Biochem*. 2012 Dec;113(12):3653-62. PMID: 22740037.

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