



# LKT Laboratories, Inc.

## Capsanthin

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### Product Information

**Product ID** C0260

**CAS No.** 465-42-9

**Chemical Name**

**Synonym** (3R,3'S,5'R)-3,3'-dihydroxy-β,κ-caroten-6-one, Paprika extract

**Formula** C<sub>40</sub>H<sub>56</sub>O<sub>3</sub>

**Formula Wt.** 584.87

**Melting Point**

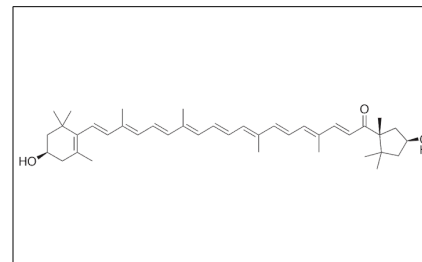
**Purity** Color value:100

**Solubility** Insoluble in water. Soluble  
in oil.  
Soluble in acetone.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Capsanthin is a carotenoid originally found in *Capsicum* that exhibits anticancer and chemopreventive activities. In leukemia cells, capsanthin upregulates expression of PPAR $\gamma$ , Nrf2, and p21, downregulates expression of cyclin D1, induces apoptosis, and inhibits cellular proliferation. In animal models, this compound increases levels of HDL and upregulates expression of ApoA5 and LCAT. Additionally, capsanthin inhibits TPA-induced tumor development in vitro and in vivo.



**Bulk quantities available upon request**

Product ID	Size
C0260	10 g
C0260	50 g
C0260	100 g

**References** Zhang X, Zhao WE, Hu L, et al. Carotenoids inhibit proliferation and regulate expression of peroxisome proliferators-activated receptor gamma (PPAR $\gamma$ ) in K562 cancer cells. Arch Biochem Biophys. 2011 Aug 1;512(1):96-106. PMID: 21620794.

Aizawa K, Inakuma T. Dietary capsanthin, the main carotenoid in paprika (*Capsicum annuum*), alters plasma high-density lipoprotein-cholesterol levels and hepatic gene expression in rats. Br J Nutr. 2009 Dec;102(12):1760-6. PMID: 19646292.

Maoka T, Mochida K, Kozuka M, et al. Cancer chemopreventive activity of carotenoids in the fruits of red paprika *Capsicum annuum* L. Cancer Lett. 2001 Oct 30;172(2):103-9. PMID: 11566483.

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