LKT Laboratories, Inc.

Lycopene

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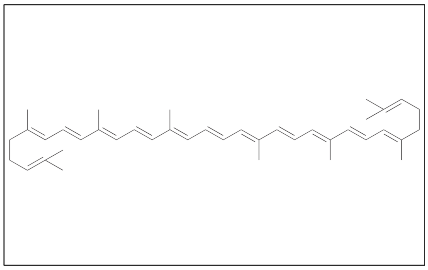
Product Information



Product ID L9609
CAS No. 502-65-8
Chemical Name ψ,ψ-Carotene

Synonym all-trans-Lycopene, Lycopene 7

Formula $C_{40}H_{56}$
Formula Wt. 536.88
Melting Point 172-173°C
Purity ≥90%
Solubility Insoluble in water. Sparingly soluble in ethanol. Soluble in carbon disulfide, chloroform and benzene.
Store Temp -80°C
Ship Temp Dry Ice

Bulk quanitites available upon request

Product ID	Size
L9609	1 mg
L9609	5 mg
L9609	10 mg

Description Lycopene is a carotene found in tomatoes and other red fruits and vegetables; it is occasionally used as a pigment dye. Lycopene exhibits cardioprotective, hepatoprotective, antioxidative, and anticancer activity. Lycopene activates retinoic acid receptors (RARs) but does not exhibit significant vitamin A activity. In cardiomyocytes, lycopene inhibits hypertrophy and Akt/GSK-3β signaling and increases expression of PTEN. In breast cancer cells, this compound induces cell cycle arrest and apoptosis and decreases cellular viability. Additionally, lycopene decreases levels of malondialdehyde and lactate dehydrogenase and increases levels of catalase in animal models of hepatic ischemia/reperfusion.

References

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Gloria NF, Soares N, Brand C, et al. Lycopene and beta-carotene induce cell-cycle arrest and apoptosis in human breast cancer cell lines. Anticancer Res. 2014 Mar;34(3):1377-86. PMID: 24596385.

Bayramoglu G, Bayramoglu A, Altuner Y, et al. The effects of lycopene on hepatic ischemia/reperfusion injury in rats. Cytotechnology. 2014 Mar 4. [Epub ahead of print]. PMID: 24590927.

Aydemir G, Carlsen H, Blomhoff R, et al. Lycopene induces retinoic acid receptor transcriptional activation in mice. Mol Nutr Food Res. 2012 May;56(5):702-12. PMID: 22648617.