



LKT Laboratories, Inc.

Chrysin

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## Product Information

Product ID C2968

CAS No. 480-40-0

Chemical Name 5,7-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one

Synonym 5,7-Dihydroxyflavone, chrysidenon

Formula  $C_{15}H_{10}O_4$

Formula Wt. 254.2

Melting Point 284-290 °C

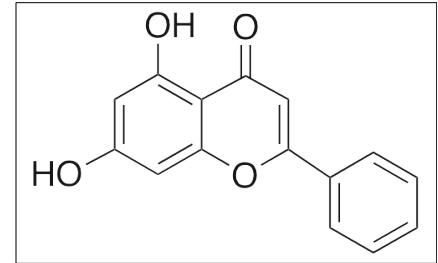
Purity  $\geq 98\%$

Solubility Soluble in alkali hydroxide solutions. Slightly soluble in alcohol, chloroform, or ether. Practically insoluble in water.

Store Temp Ambient

Ship Temp Ambient

**Description** Chrysin is a flavone/flavonoid initially found in *Passiflora*, *Oroxylum*, and *Pleurotis*; it is also a byproduct found in propolis. Chrysin exhibits anti-estrogenic, anti-inflammatory, anxiolytic, neuroprotective, cognition enhancing, antioxidative, anti-metastatic, anticancer chemotherapeutic, and chemopreventive activities. In vitro, chrysin may inhibit aromatase. In macrophages, chrysin inhibits LPS-induced expression of COX-2 and activity of NF-IL-6. This compound displays anxiolytic benefit in animals undergoing the elevated plus maze. In vivo, chrysin increases levels of catalase, superoxide dismutase, and glutathione, decreases activation of NF- $\kappa$ B and levels of TNF- $\alpha$ , IL-1 $\beta$ , IL-6, and caspase 3, and increases body weight and cognitive function. Chrysin inhibits DEN-induced renal carcinogenesis in vivo and decreases expression of VEGF, cellular metastasis, and breast cancer cell survival in vitro and in vivo. Additionally, chrysin inhibits HDAC2 and HDAC8.



**Bulk quantities available upon request**

Product ID	Size
C2968	5 g
C2968	25 g

**References** Li R, Zang A, Zhang L, et al. Chrysin ameliorates diabetes-associated cognitive deficits in Wistar rats. *Neurol Sci.* 2014 Oct;35(10):1527-32. PMID: 24737349.

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Rehman MU, Tahir M, Khan AQ, et al. Chrysin suppresses renal carcinogenesis via amelioration of hyperproliferation, oxidative stress and inflammation: plausible role of NF- $\kappa$ B. *Toxicol Lett.* 2013 Feb 4;216(2-3):146-58. PMID: 23194824.

Pal-Bhadra M, Ramaiah MJ, Reddy TL, et al. Plant HDAC inhibitor chrysin arrest cell growth and induce p21WAF1 by altering chromatin of STAT response element in A375 cells. *BMC Cancer.* 2012 May 16;12:180. PMID: 22591439.

Brown E, Hurd NS, McCall S, et al. Evaluation of the anxiolytic effects of chrysin, a *Passiflora incarnata* extract, in the laboratory rat. *AANA J.* 2007 Oct;75(5):333-7. PMID: 17966676.

Woo KJ, Jeong YJ, Inoue H, et al. Chrysin suppresses lipopolysaccharide-induced cyclooxygenase-2 expression through the inhibition of nuclear factor for IL-6 (NF-IL6) DNA-binding activity. *FEBS Lett.* 2005 Jan 31;579(3):705-11. PMID: 15670832.

Kellis JT Jr, Vickery LE. Inhibition of human estrogen synthetase (aromatase) by flavones. *Science.* 1984 Sep 7;225(4666):1032-4. PMID: 6474163.

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