



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

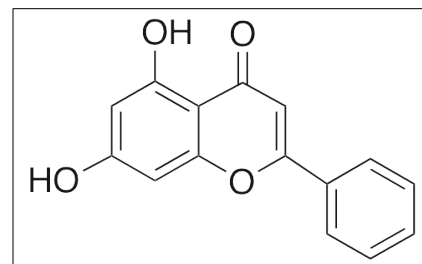
Formula C₁₅H₁₀O₄
Formula Wt. 254.2
Melting Point 284-290°C
Purity ≥98%

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-κB and levels of TNF-α, IL-1β, 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. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C2968	5 g	\$42.00
C2968	25 g	\$119.90

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.

Lirdprapamongkol K, Sakurai H, Abdelhamed S, et al. A flavonoid chrysin suppresses hypoxic survival and metastatic growth of mouse breast cancer cells. *Oncol Rep.* 2013 Nov;30(5):2357-64. PMID: 23969634.

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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.

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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.