



LKT Laboratories, Inc.

Fisetin

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Product Information

Product ID F3473

CAS No. 528-48-3

Chemical Name 2-(3,4-dihydroxyphenyl)-3,7-dihydroxychromen-4-one

Synonym 3,3',4',7-Tetrahydroxyflavone

Formula $C_{15}H_{10}O_6$

Formula Wt. 286.24

Melting Point 330°C

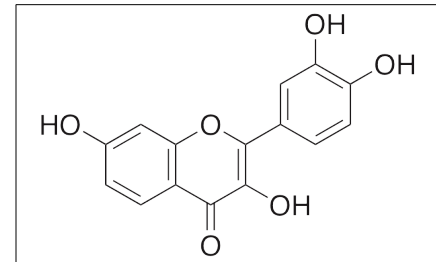
Purity $\geq 97\%$

Solubility

Store Temp 4°C

Ship Temp Ambient

Description Fisetin is a flavonoid found in various plant sources that exhibits neuroprotective, cognition enhancing, antioxidative, immunosuppressive, anti-angiogenic, and anticancer activities. In animal models of Alzheimer's disease, fisetin decreases levels of p25 and increases phosphorylation of ERK, resulting in fewer deficits in learning and memory. In cellular models, fisetin decreases levels of H₂O₂-generated superoxide anions, hydroxyl radicals, and ROS. Fisetin activates sirtuins, displaying anti-aging potential. In animal models, this compound prevents delayed-type hypersensitivity reactions; in related cellular models, fisetin inhibits Th1/Th2 cytokine production, activation of NF- κ B, and signaling by nuclear factor of activated T cells (NFAT). In various cell lines, fisetin inhibits matrix metalloproteinases 1, 3, 7, 9, and 14, inhibiting tube/vessel formation and cell proliferation. In nasopharyngeal carcinoma cells, fisetin inhibits the epithelial-to-mesenchymal transition (EMT), preventing cell migration and invasion. This compound also inhibits topoisomerases I and II.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F3473	100 mg	\$57.90
F3473	500 mg	\$81.10
F3473	1 g	\$144.80

References Li R, Zhao Y, Chen J, et al. Fisetin inhibits migration, invasion and epithelial-mesenchymal transition of LMP1-positive nasopharyngeal carcinoma cells. *Mol Med Rep.* 2014 Feb;9(2):413-8. PMID: 24297333.

Currais A, Prior M, Dargusch R, et al. Modulation of p25 and inflammatory pathways by fisetin maintains cognitive function in Alzheimer's disease transgenic mice. *Aging Cell.* 2013 Dec 17. [Epub ahead of print]. PMID: 24341874.

Park JH, Jang YJ, Choi YJ, et al. Fisetin inhibits matrix metalloproteinases and reduces tumor cell invasiveness and endothelial cell tube formation. *Nutr Cancer.* 2013;65(8):1192-9. PMID: 24099040.

Song B, Guan S, Lu J, et al. Suppressive effects of fisetin on mice T lymphocytes in vitro and in vivo. *J Surg Res.* 2013 Nov;185(1):399-409. PMID: 23993202.

Kang KA, Piao MJ, Kim KC, et al. Fisetin attenuates hydrogen peroxide-induced cell damage by scavenging reactive oxygen species and activating protective functions of cellular glutathione system. *In Vitro Cell Dev Biol Anim.* 2013 Aug 27. [Epub ahead of print]. PMID: 23982916.

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