LKT Laboratories, Inc.

Fisetin

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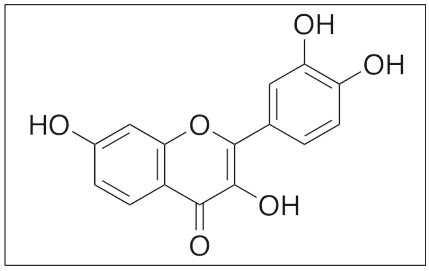
Product Information

Product ID F3473
CAS No. 528-48-3
Chemical Name

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



Formula $C_{15}H_{10}O_6$
Formula Wt. 286.24
Melting Point 330°C
Purity ≥97%
Solubility

Bulk quanitites available upon request

Product ID	Size
F3473	100 mg
F3473	500 mg
F3473	1 g

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-κB, 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.

References

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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.

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