Apigenin

Antioxidant and chemopreventive

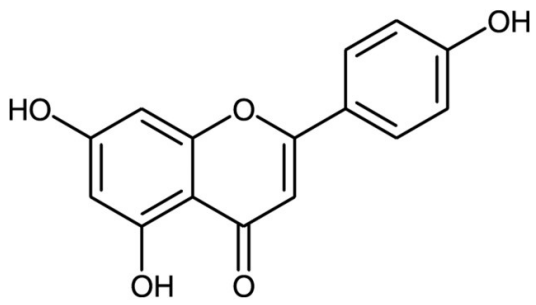
Apigenin is an antioxidant flavonoid. Has chemopreventive and antitumor properties. Induces apoptosis. Inhibits the proliferation of malignant tumor cells by G2/M arrest. Is a MAP-Kinase (MAPK/ERK) inhibitor. Inhibits hypoxia-inducible factor-1 (HIF-1) and vascular endothelial growth factor (VEGF) expression. Induces gastric relaxation in mouse stomach, mainly by suppressing Ca^{2+} influx through voltage-dependent calcium channels. Apigenin is a selective inhibitor of CK2. In WEHI 231 cells inhibition of CK2 by apigenin decreased the rate of IκBα turnover and nuclear levels of NF-κB (20 μM). It blocks proliferation of Wnt-1 transfected cells and abrogates phosphorylation of β-catenin. In a rat model of glomerulonephritis, inhibition of CK2 by apigenin ameliorates renal dysfunction.

Citations: 16 View Online »

Ordering Information Order Online »

BML-EI345-0100	100mg

Manuals, SDS & CofA View Online »

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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	light yellow to slightly brown powder
CAS	520-36-5
Couple Target	Casein kinase, HIF, MAPK
Couple Type	Inhibitor
Formula	$C_{15}H_{10}O_5$
MW	270.2
Purity	≥97% (HPLC)
Solubility	Soluble in diluted potassium hydroxyde or DMSO, slightly soluble in 100% ethanol (hot). Insoluble in water.

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