



CERTIFICATE of ANALYSIS

PRODUCT:	Apigenin Antioxidant and chemopreventative; [4',5,7-Trihydroxyflavone] C ₁₅ H ₁₀ O ₅ , M.W. 270.2, CAS# [520-36-5]
PRODUCT NUMBER:	A-1108
LOT NUMBER:	C1156
APPEARANCE:	Yellow to slightly brown powder.
SOLUBILITY:	Soluble in diluted potassium hydroxide or DMSO (50mg/mL); slightly soluble in 100% ethanol (hot); insoluble in water.
PURITY (TLC):	>98%; NMR conforms
PRODUCT DESCRIPTION:	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. Selective CK2 inhibitor. Inhibits proliferation of Wnt-1 transfected cells and

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suppresses phosphorylation of β -catenin. Ameliorates renal dysfunction at 20 mg/kg in a rat model of glomerulonephritis. Cell permeable and active *in vivo*.

STORAGE & HANDLING: Store at room temperature (+ 20°C). Store solutions at -20°C for up to 3 months

WARNING: IRRITANT!

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD