



CERTIFICATE of ANALYSIS

PRODUCT:	Apigenin C ₁₅ H ₁₀ O ₅ , M.W. 270.3, CAS# [520-36-5]
PRODUCT NUMBER:	A-1108
LOT NUMBER:	B1876
APPEARANCE:	Light yellow to slightly brown powder
SOLUBILITY:	Soluble in diluted potassium hydroxyde or DMSO; slightly soluble in 100% ethanol (hot); insoluble in water.
PURITY (TLC):	≥97%
PRODUCT DESCRIPTION:	Antioxidant flavonoid. Has chemopreventive and antitumor properties. Induces apoptosis. Inhibits the proliferation of malignant tumor cells by G2/M arrest. 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.
STORAGE & HANDLING:	Keep cool and dry at +20°C (room temperature) <u>WARNING:</u> 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