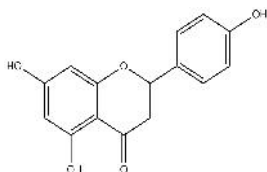


**Product: Apigenin****ALTERNATE NAME:** 5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one; Chamomile; Flavone; NSC 83244; Versulin**CATALOG #:** 2508-25, 100**AMOUNT:** 25 mg, 100 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>**MOLECULAR WEIGHT:** 270.2**CAS No.** 520-36-5**APPEARANCE:** White solid**SOLUBILITY:** DMSO (~25 mg/ml)**PURITY:** >98% by HPLC**STORAGE:** Store at -20°C. Protect from air and moisture

**DESCRIPTION:** A naturally occurring plant flavone that displays remarkable anti-inflammatory, antioxidant and anti-carcinogenic properties. It selectively inhibits casein kinase II (CK2). Apigenin inhibits CK2 activity in the renal cortex with an IC<sub>50</sub> value of 30 μM to improve renal function in a rat model of glomerulonephritis. CK2 inhibition by 20 μM apigenin decreases the degradation of I B and down-regulates NF- B levels in WEHI 231 cells. At 5 μM, it is a potent inhibitor of the synthesis of the inflammatory mediators nitric oxide and prostaglandin E<sub>2</sub>, reducing inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2) expression by 56% and 64%, respectively, in the macrophage cell line J774A.1.

**REFERENCES:** Patel, D., *et al.* (2007). *Int. J. Oncol.* **30**, 233-245.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**CaMKII antibody (**Cat. No. 3883-100**)Phospho-CaMKII antibody (**Cat. No. 3384-100**)Active CaMK1b (**Cat. No. 7729-5**)Active CaMK1d (**Cat. No. 7713-5**)Active CaMK1G (**Cat. No. 7736-5**)Active CaMK4 (**Cat. No. 7740-5**)CX4945 (**Cat. No. 2459-5, 25**)K252a (**Cat. No. 2013-500, 1000**)KN-93, water-soluble (**Cat. No. 1909-1, 5**)**FOR RESEARCH USE ONLY! Not to be used in humans.**