

## Product Information

**Product ID** A6234  
**CAS No.** 520-36-5  
**Chemical Name** 5,7-dihydroxy-2-(4-hydroxyphenyl)-(9CI)-4H-1-Benzopyran-4-one

**Synonym** Apigenine, Apigenol, Chamomile, Spigenin, Versulin

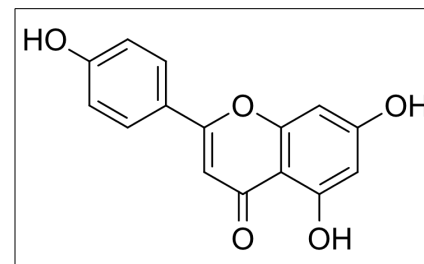
**Formula** C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>  
**Formula Wt.** 270.24  
**Melting Point** 345-350 °C  
**Purity** ≥98%

**Solubility** Moderately soluble in hot alcohol. Soluble in dilute KOH.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Apigenin is a flavonoid found in various plant sources that exhibits anticancer, antioxidative, anti-inflammatory, cognition enhancing, and neuroprotective activities. In gastric cancer cells, apigenin inhibits cell proliferation, decreases mitochondrial membrane potential, increases expression of caspase 3 and Bax, and decreases expression of Bcl-2, inducing apoptosis. Apigenin also induces microtubule depolymerization in lung cancer cells. Additionally, apigenin displays some chemopreventive potential. In aortic rings, apigenin inhibits vascular contraction. In animal models of spinal cord injury, apigenin reverses injury-induced decreases in superoxide dismutase (SOD) and glutathione peroxidase activity as well as increases in malondialdehyde; it also decreases expression of IL-1B, TNF-α, and ICAM-1. In animal models of Alzheimer's disease, apigenin suppresses oxidative stress and decreases levels of insoluble amyloid-B (AB), ameliorating learning and cognitive deficits. Additionally, this compound acts as a positive allosteric modulator at GABA-A receptors. Apigenin has also been shown to reduce stem-cell like properties in triple-negative breast cancer cells, possibly due to inhibiting YAP/TAZ activity.



**Bulk quantities available upon request**

Product ID	Size
A6234	5 mg
A6234	25 mg
A6234	100 mg

**References** Chen J, Chen J, Li Z, et al. The apoptotic effect of apigenin on human gastric carcinoma cells through mitochondrial signal pathway. *Tumour Biol.* 2014 May 8. [Epub ahead of print]. PMID: 24805829.

Zhang F, Li F, Chen G. Neuroprotective effect of apigenin in rats after contusive spinal cord injury. *Neurol Sci.* 2014 Apr;35(4):583-8. PMID: 24166720.

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Zhao L, Wang JL, Liu R, et al. Neuroprotective, anti-amyloidogenic and neurotrophic effects of apigenin in an Alzheimer's disease mouse model. *Molecules.* 2013 Aug 19;18(8):9949-65. PMID: 23966081.

Choudhury D, Ganguli A, Dastidar DG, et al. [Apigenin shows synergistic anticancer activity with curcumin by binding at different sites of tubulin.](#) *Biochimie.* 2013 Jun;95(6):1297-309. PMID: 23485682.

Li Y, Xu J, Zhu G, et al. Apigenin suppresses the stem cell-like properties of triple-negative breast cancer cells by inhibiting YAP/TAZ activity. *Cell Death Discov.* 2018 Nov 20;4:105. PMID: 30479839.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.