

## Apigenin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Apigenin

**Catalog No.:** CFN98843

**Cas No.:** 520-36-5

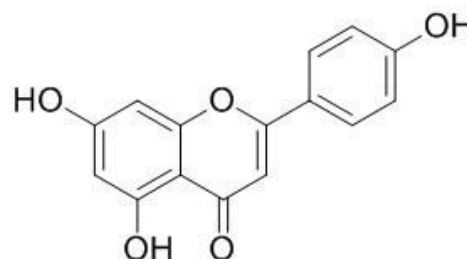
**Purity:** > 98%

**M.F:** C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>

**M.W:** 270.2

**Physical Description:** Yellow Powder

**Synonyms:** 5,7-Dihydroxy-2-(4-hydroxyphenyl)-1-benzopyran-4-one.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

### [ Source ]

The root of *Scutellaria indica* L.

## **[ Biological Activity or Inhibitors ]**

Apigenin, a naturally occurring plant flavone (4', 5, 7,-trihydroxyflavone) abundantly present in common fruits and vegetables including parsley, onions, oranges, tea, chamomile, wheat sprouts and some seasonings, has been shown to possess remarkable anti-inflammatory, antioxidant and anti-carcinogenic properties. [1]

Apigenin may have the potential for prevention and therapy for prostate cancer, apigenin treatment resulted in induction of apoptosis as determined by DNA fragmentation, PARP cleavage, fluorescence microscopy and flow cytometry, also resulted in down-modulation of the constitutive expression of NF-kappaB/p65.[2]

Apigenin has anti-hepatoma activity is as effective as 5-FU and its apoptotic mechanism might be mediated through the p53-dependent pathway and the induction of p21 expression.[3]

Apigenin possesses therapeutic potential against cancers, the combination of gemcitabine and apigenin enhances anti-tumor efficacy through Akt and NF-kappa B activity suppression and apoptosis induction.[4]

## **[ Solvent ]**

Chloroform, Dichloromethane, DMSO, Acetone, etc.

## **[ HPLC Method ]**<sup>[5]</sup>

Mobile phase: Acetonitrile-2% Acetic acid H<sub>2</sub>O=30:70;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 340 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

- [1] Patel D, Shukla S, Gupta S. *Int. J. Oncol.*, 2007, 30(1):233-45.
- [2] Gupta S, Afaq F, Mukhtar H. *Oncogene*, 2002, 21(23):3727-38.
- [3] Chiang, Lien-Chai, Ng, *et al. Cancer Lett.*, 2006, 237(2):207-14.
- [4] Lee S H, Ryu J K, Lee K Y, *et al. Cancer Lett.*, 2008, 259(1):39-49.
- [5] Yang H Y, Wang X M, Gang D U, *et al. Lishizhen Medicine & Materia Medica Research*, 2008, 19(12):2994-5.

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