OH



Fisetin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Fisetin

Catalog No.: CFN98176

Cas No.: 528-48-3

Purity: >=98%

M.F: C₁₅H₁₀O₆

M.W: 286.24

Physical Description: Yellow cryst.

Synonyms:4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-3,7-dihydroxy-;

3,3',4',7-Tetrahydroxyflavone.

[Intended Use]

- 1. Reference standards;
- 2. Pharmacological research;
- 3. Synthetic precursor compounds;
- 4. Intermediates & Fine Chemicals;
- 5. Others.

[Source]

The herbs of Rhus succedanea L.

[Biological Activity or Inhibitors]

Fisetin inhibits TH2-type cytokine production by activated human basophils.^[1]

Fisetin functions as a dual inhibitor of mTORC1/2 signaling leading to inhibition of prostate

cancer (CaP)-dependent translation and induction of autophagic cell death in PC3 cells,

suggests that fisetin could be a useful chemotherapeutic agent in treatment of hormone

refractory CaP.[2]

Fisetin has anti-inflammatory activity in human mast cells (HMC-1) through the down

-regulation of mast cell activation.[3]

Fisetin is an inhibitor of androgen receptor (AR) signaling axis, it could be a useful

chemopreventive and chemotherapeutic agent to delay progression of prostate cancer.[4]

Fisetin could be useful in attenuation of UV radiation-induced oxidative stress and the

activation of NF-kappaB and MAPK signaling in human lens epithelial cells, which

suggests that fisetin has a potential protective effect against cataractogenesis.^[5]

Fisetin has direct antioxidant activity, it can also increase the intracellular levels of

glutathione (GSH), the major endogenous antioxidant, and fisetin has both neurotrophic

and anti-inflammatory activity.[6]

Fisetin shows in vitro antifungal activity (MIC<128 ug/mL) and low toxicity ((IC₅₀=158)

ug/mL) on animal cells.[7]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[8]

Mobile phase: 1% Formic acid in water- Acetonitrile, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 40°C;

The wave length of determination:275 nm.

[Storage]

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

[References]

- [1] Higa S, Hirano T, Kotani M, et al. J. Allergy Clin. Immunol., 2003 Jun; 111(6):1299-306.
- [2] Suh Y S, Afaq F, Khan N, et al. Carcinogenesis, 2010,31(8):1424-33.
- [3] Park H H, Lee S, Oh J M, et al. Pharmacol. Res., 2007 Jan; 55(1):31-7.
- [4] Khan N, Asim M, Afaq F, et al. Cancer Res., 2008, 68(20):8555-63.
- [5] Yao K, Zhang L, Zhang Y D, et al. Molecular Vision, 2008,14(219-223):1865-71.
- [6] Chiruta C, Schubert D, Dargusch R, et al. J. Med. Chem., 2012 Jan 12;55(1):378-89.
- [7] Maysa Paula da Costa, Marize Campos Valadares Bozinis, Wanessa Machado Andrade, et al. BMC Complement. Altern. Med., 2014; 14:245.
- [8] Osman A, Makris D P. Int. J. Food Sci. Technol., 2010, 45(11):2265-71.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,

Wuhan Economic and Technological Development Zone,

Wuhan, Hubei 430056,

China

Email: info@chemfaces.com

Tel: +86-27-84237783
Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com