Fisetin Datasheet


[ Product Information ]

Name: Fisetin
Catalog No.: CFN98176
Cas No.: 528-48-3
Purity: >=98%
M.F: C\textsubscript{15}H\textsubscript{10}O\textsubscript{6}
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 (IC\textsubscript{50}=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\degree C;
The wave length of determination:275 nm.

[ **Storage** ]

2-8\degree C, Protected from air and light, refrigerate or freeze.
[ References ]


[ Contact ]

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