[ Product Information ]

Name: 6-Prenylnaringenin
Catalog No.: CFN92017
Cas No.: 68236-13-5
Purity: > 95%
M.F: C_{20}H_{20}O_{5}
M.W: 340.4
Physical Description: Powder
Synonyms: (2S)-2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butyl)-4-H-1-benzopyran-4-one.

[ Intended Use ]

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

[ Source ]

The herbs of *Humulus lupulus*. 
[ Biological Activity or Inhibitors]
6-Prenylnaringenin is a chiral prenylflavonoid found most prevalently in hops (Humulus lupulus) and present in hops and hop products, it is an isomer of the potent phytoestrogen, 8-prenylnaringenin.[1]
6-Prenylnaringenin and 8-prenylnaringenin have anti-cancer potential, dose-dependent reduction of cellular proliferation of human PC-3 prostate cancer and UO.31 renal carcinoma cells upon treatment.[2]
6-Prenylnaringenin can inhibit 12-O-tetradecanoylphorbol 13-acetate (TPA)-induced inflammation (1μg/ear) in mice, it also exhibits inhibitory effects on skin-tumor promotion in an in vivo two-stagemouse-skin carcinogenesis test based on 7,12-dimethylbenz[a]-anthracene (DMBA) as initiator and with TPA as promoter. [3]
6-Prenylnaringenin exhibits both mixed and non-competitive inhibitory characteristics against tyrosinase, tyrosinase is the rate-limiting enzyme for the production of melanin and other pigments via the oxidation of L-tyrosine.[4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][5]
Mobile phase: Acetonitrile -Phosphoric acid aqueous solution ( pH=1.6 ) ,gradient elution ;
Flow rate: 1.5 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 314 nm.

[ Storage ]
2-8℃, Protected from air and light, refrigerate or freeze.

[ References ]


[Contact]

Address:
SS-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