Natural Products

ChemFaces

Daidzein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Daidzein

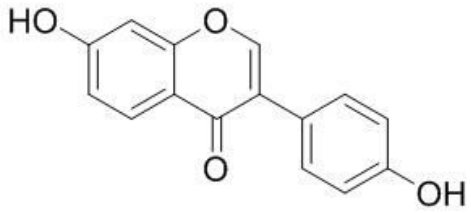
Catalog No.: CFN98774

Cas No.: 486-66-8

Purity: > 98%

M.F: $C_{15}H_{10}O_4$

M.W: 254.2



Physical Description: Yellow powder

Synonyms: 7-Hydroxy-3-(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 *Pueraria lobata (Willd.) Ohwi.*

[Biological Activity or Inhibitors]

Daidzein and genistein glucuronides (DG and GG), major isoflavone metabolites, may be partly responsible for biological effects of isoflavones, such as estrogen receptor binding and natural killer cell (NK) activation or inhibition; DG and GG are weakly estrogenic, and they activate human NK cells in nutritionally relevant concentrations in vitro, probably at a site different from IL-2 action.[1]

Daidzein, genistein, and their beta.-glycoside conjugates can inhibit mammary tumorigenesis in animal models of breast cancer, may have antitumor activity against breast cancer.[2]

Daidzein and daidzin can suppress free-choice ethanol intake by Syrian golden hamsters.[3]

Daidzein or 17 alpha-ethinylestradiol is more efficient than genistein in preventing ovariectomy-induced bone loss in rats.[4]

[Solvent]

Chloroform, Dichloromethane, Diethyl ether, DMSO, Acetone, etc.

[HPLC Method][5]

Mobile phase: Methanol- H2O=55:45;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 249 nm.

[Storage]

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

[References]

[1] Zhang Y, Song T T, Cunnick J E, *et al. J. Nutr., 1999, 129(2):399-405.*

[2] Coward L, Barnes N C, Setchell K D R, *et al. J. Agr. Food Chem., 1993, 41(11):1961-7.*

[3] Keung W M, Vallee B L. *P. Natl. Acad. Sci. U.S.A., 1993, 90(21):10008-12.*

[4] Picherit C, Coxam V, Bennetau-Pelissero C, *et al. J. Nutr., 2000, 130(7):1675-81.*

[5] Zhao X, Shen Q, Ma Y. *J. Chromatogr. B, 2011, 879(1):113-6.*

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