

Genistin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Genistin

Catalog No.: CFN90250

Cas No.: 529-59-9

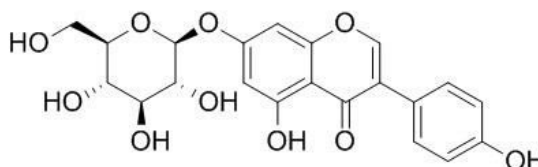
Purity: > 98%

M.F: C₂₁H₂₀O₁₀

M.W: 432.38

Physical Description: Powder

Synonyms: 4',5,7-Trihydroxyisoflavone 7-glucoside; Genistein 7-glucoside; Genistoside; Genistein-7-O-β-D-glucopyranoside; Genistein glucoside; Genisteol 7-monoglucoside.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements;
9. Others.

[Source]

The herb of *Trifolium pratense* L.

[Biological Activity or Inhibitors]

Genistin and daidzin are among the major isoflavonoids in soybeans and soy products, genistin has antioxidant activity and anticarcinogenic properties, can inhibit UV light-induced plasmid DNA damage and cell growth in human melanoma cells.^[1]

Genistein and genistin inhibit cell proliferation by disrupting the cell cycle, which is strongly associated with the arrest induction of either G1 or G2/M phase and may induce apoptosis, speculates that both genistein and genistin may prove useful as anticancer drugs and that the combination of genistein and genistin may have further anticancer activity.^[2]

Dietary genistin can stimulate growth of estrogen-dependent breast cancer tumors similar to that observed with genistein.^[3]

Genistin and daidzin have preventive effects on bone loss in ovariectomized rats fed a calcium-deficient diet.^[4]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[5]

Mobile phase: Methanol-2% Aqueous acetic acid =43:51;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

- [1] Russo A, Cardile V, Lombardo L, *et al.* *J. Nutr. Biochem.*, 2006, 17(2):103-8.
- [2] Choi E J, Kim T, Lee M S. *Life Sci.*, 2007, 80(15):1403-8.
- [3] Allred C D, Ju Y H, Allred K F, *et al.* *Carcinogenesis*, 2001, 22(10):1667-73.
- [4] Ishida H, Uesugi T, Hirai K, *et al.* *Biol. Pharm. Bull.*, 1998, 21(1):62-6.
- [5] Suo Z R, Qin H Y, Du L C. *Chinese J. Pharm. Anal.*, 2009, 29(10):1662-4.

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