

2'-Hydroxygenistein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 2'-Hydroxygenistein

Catalog No.: CFN99257

Cas No.: 1156-78-1

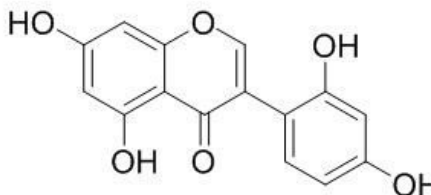
Purity: > 95%

M.F: C₁₅H₁₀O₆

M.W: 286.24

Physical Description: Yellow powder

Synonyms: 5,7,2',4'-Tetranydroxyisoflavone; 3-(2,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-chromen-4-one.



[Intended Use]

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

[Source]

The roots of *Lupinus mutabilis*.

[Biological Activity or Inhibitors]

2'-Hydroxygenistein has antifungal activity, dimerization of it causes a remarkable increase of antifungal activity.^[1]

2'-Hydroxygenistein exhibits greater antiproliferative effects in MCF-7 human breast cancer cells than does genistein, suggest that 2'-hydroxylation of genistein can enhance its antioxidant activity and cell cytotoxicity in MCF-7 human breast cancer cells.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- Acetic acid in water (pH 3.3), gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Sakasai M, Fukui H, Yamane H, *et al. Z. Naturforsch. C*, 2000, 55(4):165-74.

[2] Choi J N, Kim D, Choi H K, *et al. J. Microbiol. Biotech.*, 2009, 19(11):1348-54.

[3] Hu M, Krausz K, Chen J, *et al. Drug Metab. Dispos.* , 2003, 31(7):924-31.

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