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Herbacetin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Herbacetin

Catalog No.: CFN99778

Cas No.: 527-95-7

Purity: >=98%

M.F: C₁₅H₁₀O₇

M.W: 302.24

Physical Description: Yellow powder

Synonyms:3,5,7,8-Tetrahydroxy-2-(4-hydroxyphenyl)chromen-4-one;

 $3,4^{\prime},5,7,8$ -Pentahydroxyflavone.

[Intended Use]

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

[Source]

The herbs of Equisetum hyemale L.

[Biological Activity or Inhibitors]

Herbacetin and gossypetin as taxonomic markers in higher plants.[1]

Herbacetin induces HepG2 apoptosis in a ROS-mediated mitochondria-dependent

manner that correlate with the inactivation of the PI3K/Akt pathway.[2]

Herbacetin, a novel Met inhibitor with a potential utility in cancer therapeutics, suppresses

the HGF-induced motility of human breast cancer MDA-MB-231 cells by inhibiting c-Met

and Akt phosphorylation. [3]

Herbacetin exerts an anti-inflammatory effect through suppression of LPS-induced JNK

and NF-kB signaling pathways and diminished production of proinflammatory cytokines

and mediators.[4]

Herbacetin has a strong ability to scavenge free radical and inhibit oxidative protein

damage.[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Acetonitrile-H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 382 nm.

[Storage]

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

[References]

[1] Harborne J B. Phytochemistry, 1969, 8(1):177-83.

- [2] Yan Q, Xiang Q, Li Y, et al. Food Chem. Toxicol., 2013, 51(1):426-33.
- [3] Hyuga S, Hyuga M, Yoshimura M, et al. Planta Med., 2013, 79(16):1525-30.
- [4] Li L, Sapkota M, Kim S W, et al. Eur. J. Pharmacol., 2015,765:115-23.
- [5] Qiao Y, Liu X B. Food Science, 2013, 34(17):106-10.
- [6] Zhang J, Jin S X, Geng B, et al. Chinese Traditional and Herbal Drugs, 2016, 47(23): 4253-6.

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