

Baicalein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Baicalein

Catalog No.: CFN98783

Cas No.: 491-67-8

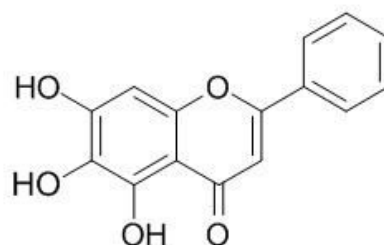
Purity: > 98%

M.F: C₁₅H₁₀O₅

M.W: 270.2

Physical Description: Yellow powder

Synonyms: 5,6,7-Trihydroxy-2-phenyl-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. Others.

[Source]

The root of *Scutellaria baicalensis* Georgi.

[Biological Activity or Inhibitors]

Baicalin, saikosaponins, and baicalein have antitumor effects on human hepatoma cell lines and bladder cancer cell lines.^[1,2]

Baicalin, wogonin, and baicalein inhibition of inducible nitric oxide synthase and cyclooxygenase-2 gene expressions induced by nitric oxide synthase inhibitors and lipopolysaccharide.^[3]

Baicalin and its aglycone baicalein have widely investigated in hematological malignancies because both of them exhibit remarkable pharmacological properties.^[4]

Baicalin, baicalein, and wogonin have antioxidant and free radical scavenging effects.^[5]

Baicalin exhibits the greatest inhibition activity against carrageenan-induced rat paw edema.^[6]

Baicalein can induce cancer cell death and proliferation retardation by the inhibition of CDC2 kinase and survivin associated with opposite role of p38 mitogen-activated protein kinase and AKT.^[7]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[8]

Mobile phase: Methanol-0.05%Phosphoric acid H₂O=65:35;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 275 nm.

[Storage]

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

[References]

- [1] Motoo Y, Sawabu N. *Cancer Lett.*, 1994, 86(1):91-5.
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- [4] Chen H, Gao Y, Wu J, *et al.* *Cancer Lett.*, 2014, 354(1):5-11.
- [5] Shieh D E, Liu L T, Lin C C. *Anticancer Res.*, 2000, 20(5A):2861-5.
- [6] ChunChing Lin, DenEn Shieh. *Am. J. Chinese Med.*, 1996, 24(1):31-6.
- [7] Chao J, Su W H. *Mol. Cancer Ther.*, 2007, 6(11):3039-48.
- [8] Dong W J, Liu Y L. *Chinese J. Pharm. Anal.*, 2009, 29(3):2120-2.

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