

Sakuranetin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Sakuranetin

Catalog No.: CFN98366

Cas No.: 2957-21-3

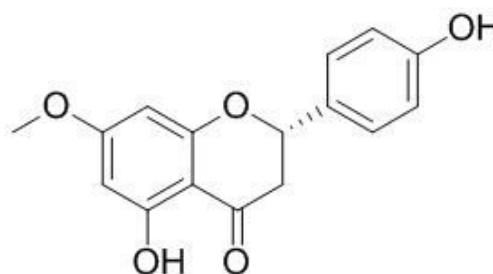
Purity: > 95%

M.F: C₁₆H₁₄O₅

M.W: 286.3

Physical Description: Powder

Synonyms: 5,4'-Dihydroxy-7-methoxyflavone.



[Intended Use]

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

[Source]

The leaves of *Oryza sativa* L.

[Biological Activity or Inhibitors]

Sakuranetin, a flavanone phytoalexin from ultraviolet-irradiated rice leaves.^[1]

Sakuranetin can strongly induce differentiation of 3T3-L1 preadipocytes, stimulate glucose uptake in differentiated 3T3-L1 adipocytes, suggests that sakuranetin may contribute to maintain glucose homeostasis in animals.^[2]

Sakuranetin has antimutagenic activity, it shows a suppressive effect on umu gene expression of SOS response in Salmonella typhimurium TA1535/pSK1002 against the mutagen furylfuramide. ^[3]

Sakuranetin stimulates melanogenesis in B16 melanoma cells via inhibition of ERK1/2 and PI3K/AKT signaling pathways, which lead to upregulation of Tyr, TRP1, and TRP2.^[4]

Sakuranetin has anti-inflammatory and antioxidant effects, preventing vascular and distal parenchyma changes in this experimental model of asthma.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Methanol -H₂O=95:5 ;

Flow rate: 0.6 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 288 nm.

[Storage]

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

[References]

[1] Kodama O, Miyakawa J, Akatsuka T, *et al. Phytochemistry*, 1992, 31(11):3807-9.

[2] Saito T, Abe D, Sekiya K. *Biochem. Biophys. Res. Commun.*, 2008, 372(4):835-9.

[3] Miyazawa M, Kinoshita H, Okuno Y. *J. Food Sci.*, 2003, 68(68):52-6.

[4] Drira R, Sakamoto K. *Phytother. Res.*, 2016,30(6):997-1002.

[5] Sakoda C P, de Toledo A C, Perini A, *et al. Acta Histochem.* 2016,118(6):615-24.

[6]Takemoto J K, Remsberg C M, Yáñez J A, *et al. J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.* ,2008,875(1):136-41.

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