

Isosakuranetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isosakuranetin

Catalog No.: CFN98743

Cas No.: 480-43-3

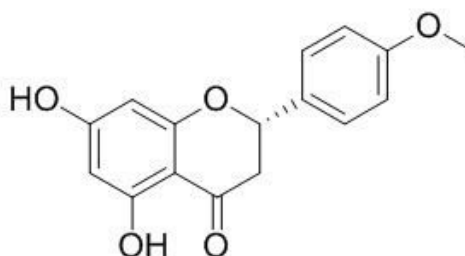
Purity: > 98%

M.F: C₁₆H₁₄O₅

M.W: 286.3

Physical Description: Powder

Synonyms: (2S)-5,7-dihydroxy-2-(4-methoxyphenyl)-3,4-dihydro-2H-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. Ingredient in supplements, beverages;
8. Others.

[Source]

The fruits of *Citrus aurantium* L.

[Biological Activity or Inhibitors]

Isosakuranetin (ISK) is a plant exudate with known cytotoxic and fungicide properties, it may act on wheat root segments as an inhibitor of K⁺ permeation; the lack of proton leakage and membrane disruption by ISK made this compound a weak candidate as a phytoalexin, and suggesting a major role as an allelopathic molecule.^[1]

Isosakuranetin, a 4'-O-methylated flavonoid, stimulates melanogenesis in B16 melanoma cells via up-regulation of MITF, it induced- inhibition of ERK1/2 and PI3K/AKT signaling pathways activate MITF and subsequent expression of Tyr, TRP1, and TRP2.^[2]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.2% Aqueous phosphoric acid=35:65;

Flow rate: 1.0 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] Sacco S, Maffei M. *Phytochemistry*, 1997, 46(2):245-8.

[2] Riadh Drira, Kazuichi Sakamoto. *Life Sci.*, 2015, 143:43-9.

[3] Li S S, Shi X Y, Zhan X R, *et al.* *China Journal of Traditional Chinese Medicine & Pharmacy*, 2009:1223-5.

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