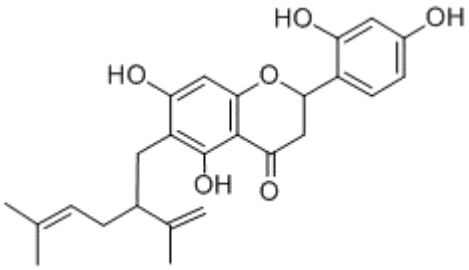
Natural Products

ChemFaces

Sophoraflavanone G Datasheet

4th Edition (Revised in July, 2016)

[Product Information]



Name: Sophoraflavanone G

Catalog No.: CFN92005

Cas No.: 97938-30-2

Purity: > 95%

M.F: $C_{25}H_{28}O_6$

M.W: 424.49

Physical Description: Powder

Synonyms:

Vexibinol;(S)-2,3-Dihydro-5,7-dihydroxy-2-(2,4-dihydroxyphenyl)-6-[(R)-5-methyl-2-(1-methylethenyl)-4-hexenyl]-4H-1-benzopyran-4-one;

4H-1-Benzopyran-4-one,2-(2,4-dihydroxyphenyl)-2,3-dihydro-5,7-dihydroxy-8-[(2R)-5-methyl-2-(1-methylethenyl)-4-hexen-1-yl]-,(2S)-.

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The roots of *Sophora flavescens Ait.*

[Biological Activity or Inhibitors]

Sophoraflavanone G, isolated from Sophora flavescens, has antibacterial activity, sophoraflavanone G alone or in combination with antibiotics might prove useful in the control and treatment of methicillin-resistant Staphylococcus aureus (MRSA) infections.[1]

Sophoraflavanone G has anti-inflammatory activity, is a potent inhibitor against the eicosanoid generating enzymes, it inhibits cyclooxygenase-2 and in vivo inflammatory response.[2]

Sophoraflavanone G as a novel small-molecule inhibitor of signal transducer and activator of transcription (STAT) signaling in human cancer cells that may have therapeutic potential for cancers caused by persistently activated STAT proteins. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Acetonitrile - H2O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 295 nm.

[Storage]

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

[References]

[1] Cha J, Moon S, Kim J*, et al. Phytother. Res., 2009, 23(9):1326-31.*

[2] Kim D W, Chi Y S, Son K H, *et al. Arch. Pharm. Res., 2002, 25(3):329-35.*

[3] Kim B H, Won C, Lee Y H, *et al. Biochem. Pharmacol., 2013, 86(7):950-9.*

[4] Hong-Yan M A, Zhou W S, Chu F J, *et al. China Journal of Chinese Materia Medica, 2013, 38(16):2690-5.*

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