

Kaempferol 3-O-β-sophoroside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kaempferol 3-O-β-sophoroside

Catalog No.: CFN92372

Cas No.: 19895-95-5

Purity: > 98%

M.F: C₂₇H₃₀O₁₆

M.W: 610.5

Physical Description: Yellow powder

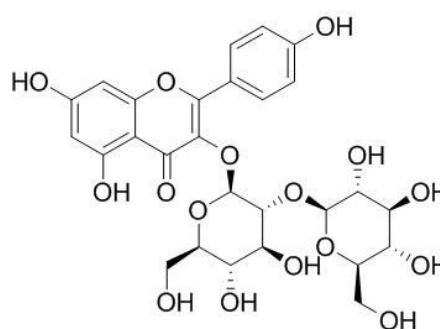
Synonyms:

3-[[[(2S,3R,4S,5S,6R)-4,5-dihydroxy-6-(hydroxymethyl)-3-[[[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)-2-oxanyl]oxy]-2-oxanyl]oxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)-1-benzopyran-4-one;

3-(2-O-β-D-Glucopyranosyl-β-D-glucopyranosyloxy)-4',5,7-trihydroxyflavone;

Kaempferol 3-sophoroside; Kaempferol 3-β-sophoroside;kaempferol 3-O-sophoroside;

Sophoraflavanolside.



[Intended Use]

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

[Source]

The herbs of *Carthamus lanatus L.*

[Biological Activity or Inhibitors]

Kaempferol-3-O- β -D-sophoroside, isolated from *Sophora japonica* (Leguminosae), inhibits the LPS induced iNOS, COX-2 and cytokines expression through the NF- κ B inactivation in RAW 264.7 cells.^[1]

Kaempferol-3- O -sophoroside has anti-inflammatory activity in human endothelial cells, it has inhibitory effects on HMGB1-mediated proinflammatory responses.^[2,3]

Kaempferol 3- O -sophoroside has analgesic activity.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Park S J, Shin J S, Cho W, *et al. Korean Journal of Pharmacognosy*, 2008.

[2] Kim T H, Ku S K, Lee I C, *et al. Inflamm. Res.*, 2012, 61(3):217-24.

[3] Kim T H, Ku S K, Bae J S. *Food Chem. Toxicol.* , 2012, 50(3-4):1118-23.

[4] Palanichamy S, Nagarajan S. *J. Ethnopharmacol.*, 1990, 29(1):73-8.

[5] Fernandes F, Valentão P, Sousa C, *et al. Food Chem.*, 2007, 105(3):1003-10.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com