

# Hinokiflavone Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Hinokiflavone

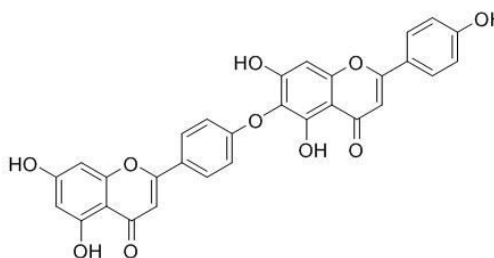
**Catalog No.:** CFN92007

**Cas No.:** 19202-36-9

**Purity:** > 98%

**M.F:** C<sub>30</sub>H<sub>18</sub>O<sub>10</sub>

**M.W:** 538.46



**Physical Description:** Yellow powder

**Synonyms:**4',6''-Biapigenin;4',6''-O-Biapigenin;6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)-4-benzopyrone;

2-(4-Hydroxyphenyl)-5,7-dihydroxy-6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-4H-1-benzopyran-4-one;4'''',5,5'',7,7''-Pentahydroxy(4',6''-oxybisflavone);

4',5,7-Trihydroxy-6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]flavone;

6-[4-(5,7-Dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.

## [ Intended Use ]

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

## **[ Source ]**

The leaves of *Platycladus orientalis*.

## **[ Biological Activity or Inhibitors ]**

Hinokiflavone, a cytotoxic principle from *Rhus succedanea*, has cytotoxicity. <sup>[1]</sup>

Hinokiflavone displays influenza A and B virus sialidase inhibitory activity.<sup>[2]</sup>

Hinokiflavone could as therapeutic lead against osteoarthritis by inhibiting ADAMTS-5.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol- Phosphate buffer, gradient elution;

Flow rate: 1.5 ml/min;

Column temperature: 40 °C;

The wave length of determination: 330 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Lin Y M, Chen F C, Lee K H. *Planta Med.*, 1989, 55(2):166-8.

[2] Miki K, Nagai T, Nakamura T. *Heterocycles*, 2008, 75(4):879-85.

[3] Rathi Suganya P., Sukesh Kalva, Lilly M. Saleena. *Int. J. Biosci. Biochem. Bioinform*, 2011, 1(1):16:20.

[4] Hai L, Rui L, Fang F, et al. *Chinese Journal of Pharmaceutical Analysis*, 2002(5):392-5.

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