

## Isowighteone Datasheet

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

### [ Product Information ]

**Name:** Isowighteone

**Catalog No.:** CFN97166

**Cas No.:** 68436-47-5

**Purity:** > 98%

**M.F:** C<sub>20</sub>H<sub>18</sub>O<sub>5</sub>

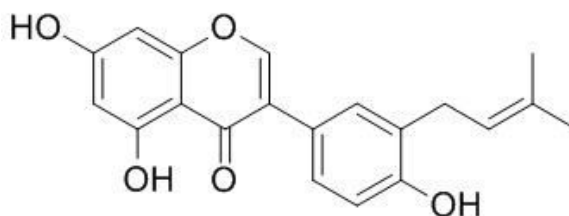
**M.W:** 338.4

**Physical Description:** Yellow powder

**Synonyms:** 4',5,7-Trihydroxy-3'-prenylisoflavone;

3'-Dimethylallylgenistein; 3'-(upsilon,upsilon-Dimethylallyl)genistein;

5,7-Dihydroxy-3-[4-hydroxy-3-(3-methyl-2-butenyl)phenyl]-4H-1-benzopyran-4-one, 9Cl.



### [ Intended Use ]

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

### [ Source ]

The roots of *Sophora flavescens*.

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

Isowighteone, a compound that is not naturally produced in this species, accumulated by medicago truncatula hairy roots expressing LaPT1, indicates a strategy for metabolic engineering of novel antimicrobial compounds in legumes; it may have antimicrobial activity against fungal pathogens of plants.<sup>[1]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Methanol-0.01%Trifluoroacetic acid H<sub>2</sub>O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 260 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Shen G, Huhman D, Lei Z, *et al. Plant Physiol.*, 2012, 159(1):70-80.

[2] Zhang Y F, Cheng S K. *Northwest Pharmaceutical Journal*, 2002, 17 (2): 61-61.

## **[ 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](http://www.chemfaces.com)

**Tech Support:** service@chemfaces.com