

## Lupiwighteone Datasheet

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

### [ Product Information ]

**Name:** Lupiwighteone

**Catalog No.:** CFN96146

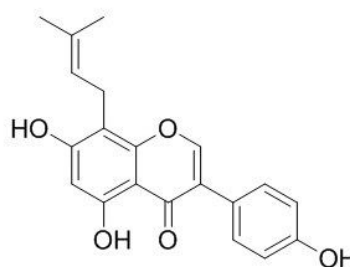
**Cas No.:** 104691-86-3

**Purity:** > 95%

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

**M.W:** 338.36

**Physical Description:** Powder



**Synonyms:** 5,7-Dihydroxy-3-(4-hydroxyphenyl)-8-(3-methylbut-2-en-1-yl)-4H-chromen-4-one; 4H-1-benzopyran-4-one, 5,7-dihydroxy-3-(4-hydroxyphenyl)-8-(3-methyl-2-buten-1-yl)-; 5,7,4'-Trihydroxy-8-(3,3-dimethylallyl)isoflavone.

### [ Intended Use ]

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

### [ Source ]

The roots of *Glycyrrhiza glabra*.

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

Lupiwighteone (Lup) is a kind of natural isoflavone, it can induce cell cycle arrest and apoptosis and activate the Nrf2/ARE pathway in human neuroblastoma cells, the results may provide a scientific basis for the application of the anticancer and cancer preventive effects of Lup on SH-SY5Y cells.<sup>[1]</sup>

Lupiwighteone has antifungal activities against *Phytophthora infestans*, the IC(50) value is 90.365 ug/mL.<sup>[2]</sup>

Lupiwighteone shows antioxidant and antimicrobial effects, it can induce cytotoxic, apoptotic, and antiangiogenic activities in DU-145 prostate cancer cells. <sup>[3]</sup>

## **[ Solvent ]**

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

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

Mobile phase: 0.1 M K<sub>2</sub>HPO<sub>4</sub>- Ethanol=50:50 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 260 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Ren J, Yang J, Xu Y, *et al. Biomed. Pharmacother.*, 2014, 69:153-61.

[2] Wei S, Wu W, Ji Z. *Int. J. Mol. Sci.*, 2012, 13(6):7375-82.

[3] Ren J, Huang Q, Xu Y, *et al. Anti-Cancer Drug.*, 2015, 26(6):599-611.

[4] Von Baer D, Saelzer R, Vega M, *et al. J. Chil.Chem. Soc.*, 2006, 51(4):1025-9.

## **[ Contact ]**

**Address:**

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

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

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

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)