

## Wighteone Datasheet

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

### [ Product Information ]

**Name:** Wighteone

**Catalog No.:** CFN98816

**Cas No.:** 51225-30-0

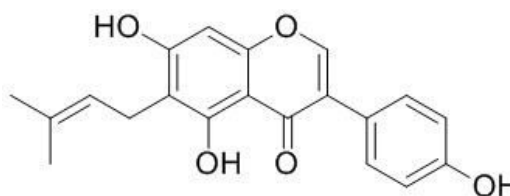
**Purity:** > 95%

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

**M.W:** 338.4

**Physical Description:** Yellow powder

**Synonyms:** 3-(4-Hydroxyphenyl)-5,7-dihydroxy-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one; 4',5,7-Trihydroxy-6-(3-methyl-2-butenyl)isoflavone; 4',5,7-Trihydroxy-6-prenyl-isoflavone; 5,7-Dihydroxy-3-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one; Erythrinin B.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Glycyrrhiza glabra*.

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

Wighteone, a major isoflavone component of the ornamental tall tree *Erythrina suberosa*, has a potent anti-proliferative effect on human leukemia HL-60 cancer cell lines, it can effectively inhibit the proliferation of HER2-positive cancer cell lines, and this is considered to be the result of downregulating HSP90 receptor and downstream signaling.<sup>[1]</sup>

Wighteone is an antifungal isoflavone.<sup>[2]</sup>

Wighteone has in vitro cytotoxic activity against KB cells.<sup>[3]</sup>

## **[ Solvent ]**

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

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

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

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Cao Z W, Zeng Q, Pei H J, *et al. Oncol. Lett.*, 2016, 11(6):3719-22

[2] Tahara S, Nakahara S, Ingham J L, *et al. Nippon Nōgeikagaku Kaishi*, 1985, 59:1039-44.

[3] Nkengfack A E, Azebaze A G B, Waffo A K, *et al. Phytochemistry*, 2002, 58(7):1113-20.

[4] Nguyen P H, Na M K, Dao T T, *et al. Bioorg. Med. Chem. Lett.*, 2010, 20(22):6430-4.

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