

## Skullcapflavone II Datasheet

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

### [ Product Information ]

**Name:** Skullcapflavone II

**Catalog No.:** CFN92216

**Cas No.:** 55084-08-7

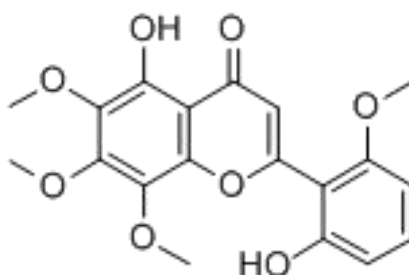
**Purity:** >95%

**M.F:** C<sub>19</sub>H<sub>18</sub>O<sub>8</sub>

**M.W:** 374.34

**Physical Description:** Yellow powder

**Synonyms:** 2',5-Dihydroxy-6,6',7,8-tetramethoxyflavone; Neobaicalein.



### [ Intended Use ]

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

### [ Source ]

The roots of *Scutellaria baicalensis* Georgi.

### [ Biological Activity or Inhibitors ]

Skullcapflavone II is a flavonoid derived from *Scutellaria baicalensis*, a widely used herbal

medicine in anti-inflammatory and anticancer therapy in Korea, it is a potential bradykinin antagonist, reduced the major pathophysiological features of allergic asthma, at least in part by acting on TGF- $\beta$  1/Smad signaling pathways, thus, skullcapflavone II may have therapeutic potential for the treatment of allergic asthma.<sup>[1]</sup>

Skullcapflavone II, baicalein, wogonin, oroxylin A, and chrysin at a concentration of 1.0 mM inhibit collagen-induced blood platelet aggregation.<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Methanol- 0.05% Phosphoric acid H<sub>2</sub>O(adjusted by triethylamine to pH 3)=90:10 ;

Flow rate: 2.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Jang H Y, Ahn K S, Park M J, *et al. Int. Immunopharmacol.*, 2012, 12(4):666-74.

[2] Kubo M, Matsuda H, Tani T, *et al. Chem. Pharmaceut. Bull.*, 1985, 33(6):2411-5.

[3] Tayaninajarani Z, Asili J, Parsaee H, *et al. Rev. Bras. Farmacogn.*, 2011.6.3.

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