Natural Products

ChemFaces

Skullcapflavone I Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Skullcapflavone I

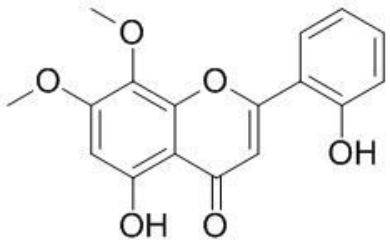
Catalog No.: CFN98643

Cas No.: 41060-16-6

Purity: > 95%

M.F: $C_{17}H_{14}O_6$

M.W: 314.29



Physical Description: Yellow powder

Synonyms:5,2'-Dihydroxy-7,8-dimethoxyflavone;5-Hydroxy-2-(2-hydroxyphenyl)-7,8-dimethoxy-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 roots of *Scutellaria baicalensis Georgi.*

[Biological Activity or Inhibitors]

Skullcapflavone I from *S. baicalensis* can selectively induce apoptosis in T-hepatic stellate cells (HSCs)/Cl-6 cells via caspase-3 and caspase-9 activation.[1]

Skullcapflavone-I can significantly inhibit LPS stimulated NO and PGE(2) release in J774A.1 macrophages and can inhibit LPS induced IL-6 production in a concentration dependent manner; skullcapflavone-I shows marked inhibitory effect on LTB(4) production(HL-60 cells); suggests that skullcapflavone-I has anti-inflammatory and anti-allergic potential.[2]

[Solvent]

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

[HPLC Method][3]

Mobile phase: Methanol -H2O=90:10, mixed with 0.05% phosphoric acid (adjusted by triethylamine to pH 3);

Flow rate: 2.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Park E J, Zhao Y Z, Lian L, *et al. Planta Med., 2005, 71(9):885-7.*

[2] Chandrasekaran C V, Thiyagarajan P, Deepak H B, *et al. Int.Immunopharmacol., 2011, 11(1):79-84.*

[3] Tayarani-Najarani Z, Asili J, Parsaee H, *et al. Rev.bras.farmacogn, 2012, 22(2):268-76.*

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