



Methylophiopogonanone A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Methylophiopogonanone A

Catalog No.: CFN98595

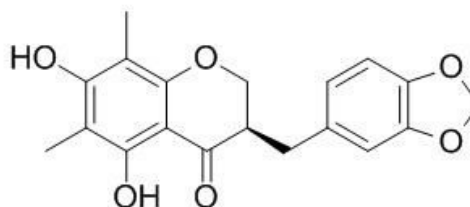
Cas No.: 74805-92-8

Purity: >=98%

M.F: C₁₉H₁₈O₆

M.W: 342.34

Physical Description: Powder



Synonyms: (3R)-3-(1,3-Benzodioxol-5-ylmethyl)-2,3-dihydro-5,7-dihydroxy-6,8-dimethyl-4H-1-benzopyran-4-one; R-Methylophiopogonanone A; 8-Methylophiopogonanone A.

[Intended Use]

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

[Source]

The roots of *Ophiopogon japonicus*.

[Biological Activity or Inhibitors]

Methylophiopogonanone A (MO-A), an active homoisoflavonoid of the Chinese herb *Ophiopogon japonicus* which has been shown to have protective effects on cerebral ischemia/reperfusion (I/R) injury, has been demonstrated to have anti-inflammatory and anti-oxidative properties; MO-A also has therapeutic potential against cerebral I/R injury through its ability to attenuate blood–brain barrier (BBB) disruption by regulating the expression of MMP-9 and tight junction proteins.^[1]

Methylophiopogonanone A has anti-oxidative activity.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=55:45 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 298 nm.

[Storage]

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

[References]

[1] Lin M, Sun W, Gong W, *et al. Plos One*, 2014, 10(4):1288-95.

[2] Tong J H, Pang X C, Wang W, *et al. Chinese Traditional & Herbal Drugs*, 2015, 46(20):3091-5.

[3] Chen Y G, Dai J D, Gu H F. *Chinese Traditional & Herbal Drugs*, 2007, 38(11):1640-3.

[Contact]

Address:

Email: info@chemfaces.com

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

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com