

Salvigenin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Salvigenin

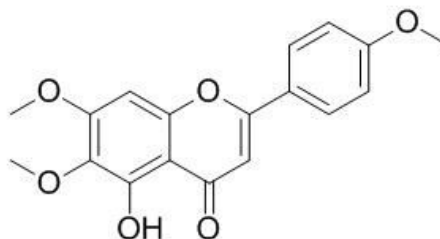
Catalog No.: CFN99883

Cas No.: 19103-54-9

Purity: > 95%

M.F: C₁₈H₁₆O₆

M.W: 328.3



Physical Description: Yellow powder

Synonyms: 5-Hydroxy-6,7-dimethoxy-2-(4-methoxyphenyl)-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 *Salvia japonica*.

[Biological Activity or Inhibitors]

Salvigenin, a natural polyphenolic compound, has neuroprotective effect on oxidative

stress-induced apoptosis and autophagy in human neuroblastoma SH-SY5Y cells.^[1]

Salvigenin has antitumor and immunomodulatory effects on tumor bearing mice.^[2]

Salvigenin has potential to ameliorate Streptozotocin-induced diabetes mellitus and heart complications in rats. ^[3]

Salvigenin has dose-dependent analgesic effect so that it can be useful in controlling of inflammations, acute and chronic pain.^[4]

Salvigenin is the most potent hMAO-A [monoamine oxidases (MAOs)]inhibitor, while xanthomicrol is the most selective hMAO-A inhibitor, they have potential as new selective and reversible hMAO-A inhibitors for the treatment of depression and anxiety.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: 2% Acetic acid in water- [Methanol -H₂O-Acetic acid=18:1:1]=40:60 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 275 nm.

[Storage]

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

[References]

[1] Rafatian G, Khodagholi F, Farimani M M, *et al. Mol. Cell. Biochem.*, 2012, 371(1):9-22.

[2] Noori S, Hassan Z M, Yaghmaei B, *et al. Cell. Immunol.* 2013, 286(1-2):16-21.

[3] H Sadeghi, A Mansourabadi, M Rezvani, *et al. British Journal of Medicine Medical Research.*, 2016, 15(2):1-12.

[4] A H Mansourabadi, H M Sadeghi, N Razavi, *et al. Advaced Herbal Medicine* , 2015,

1(3):31-41.

[5] Turkmenoglu F P, Baysal i, Ciftci-Yabanoglu S, *et al. Molecules*, 2015, 20(5):7454-73.

[6] Vieira R F, Grayer R J, Paton A J. *Phytochemistry*, 2003, 63(5):555-67.

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