

Irisflorentin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Irisflorentin

Catalog No.: CFN99788

Cas No.: 41743-73-1

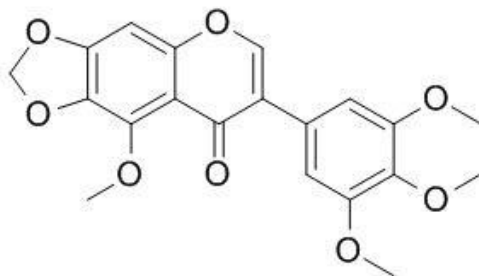
Purity: >=98%

M.F: C₂₀H₁₈O₈

M.W: 386.35

Physical Description: Yellow powder

Synonyms: 9-Methoxy-7-(3,4,5-trimethoxyphenyl)-[1,3]dioxolo[4,5-g]chromen-8-one.



[Intended Use]

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

[Source]

The rhizomes of *Belamcanda chinensis* (L.) DC.

[Biological Activity or Inhibitors]

Irisflorentin has anti-inflammatory activity in lipopolysaccharides (LPS)-stimulated RAW

264.7 macrophages, it can markedly reduce the transcriptional and translational levels of inducible nitric oxide synthase (iNOS) as well as the production of NO, it also can significantly inhibit TNF- α , IL-1 β and IL-6 at both the transcriptional and translational levels.^[1]

Irisflorentin has potential to ameliorate Parkinson's disease in *Caenorhabditis elegans* models, it may exert its effects by promoting rpn-3 expression to enhance the activity of proteasomes and down-regulating egl-1 expression to block apoptosis pathways.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol-0.4% Phosphoric acid solution=62:38;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 265 nm.

[Storage]

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

[References]

[1] Gao Y, Fang L, Liu F, *et al. Experimental Biology and Medicine*, 2014, 239(8):1018-24.

[2] Chen Y M, Liu S P, Lin H L, *et al. Biomedicine (Taipei)*, 2015, 5(1): 4.

[3] Zeng H T, Li Y S, Li W Z, *et al. Journal of Pharmaceutical Research*, 2015, 34(2):72-4.

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