

Pimpinellin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Pimpinellin

Catalog No.: CFN99402

Cas No.: 131-12-4

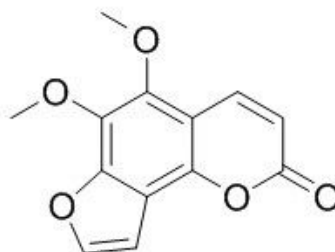
Purity: >=98%

M.F: C₁₃H₁₀O₅

M.W: 246.2

Physical Description: Yellow powder

Synonyms: 5,6-Dimethoxy-2H-furo[2,3-h]chromen-2-one.



[Intended Use]

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

[Source]

The fruits of *Psoralea corylifolia* L.

[Biological Activity or Inhibitors]

Pimpinellin has inhibitory effects on LPS-induced inflammatory response in RAW264.7

macrophages.^[1]

Pimpinellin has inhibitory activity against *Mycobacterium tuberculosis* strain H37Ra , with MICs of 812 uM and IC₅₀s of 389 uM.^[2]

Pimpinellin has potent cytotoxic activities against the three cell lines(MGC-803, PC3, and A375), with the IC₅₀ values of 14.4±0.3uM, 20.4±0.5uM, and 29.2±0.6uM, respectively.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -H₂O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25℃;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Huang Shyh-Shyun, Huang Guan-Jhong.*China Medical University Repository,Taiwan. 2013.*

[2] O'Neill T, Johnson J A, Webster D, *et al. J. Ethnopharmacol.,2013 May 2;147(1):232-7.*

[3] Yang S, Liu M, Liang N, *et al. Chem. Cent. J., 2013 Feb 4;7(1):24.*

[4] Walasek M, Grzegorzcyk A, Malm A, *et al. Food Chem.,2015 Nov 1;186:133-8.*

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