

Alpinumisoflavone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Alpinumisoflavone

Catalog No.: CFN98440

Cas No.: 34086-50-5

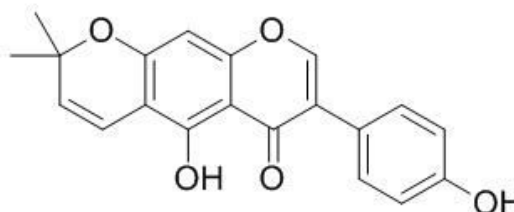
Purity: > 95%

M.F: C₂₀H₁₆O₅

M.W: 336.34

Physical Description: Powder

Synonyms: 5-Hydroxy-7-(4-hydroxyphenyl)-2,2-dimethyl-2H,6H-pyrano[3,2-g]chromen-6-one.



[Intended Use]

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

[Source]

The herbs of *Genista pichisermolliana*.

[Biological Activity or Inhibitors]

Alpinumisoflavone and abyssinone V-4'-methyl ether are endowed with estrogenic properties accounting, at least in part, for E. lysistemon effects.^[1]

Alpinumisoflavone can induce cell death of human lung tumor cells by apoptosis, it also represses lipopolysaccharide (LPS)-induced nitric oxide (NO) production in RAW264.7 cells by inhibiting NF-κB-dependent transcription, therefore, the cell death induced by alpinumisoflavone may be via repressing both the ERK/MAPK and NF-κB pathways.^[2]

Alpinumisoflavone and abyssinone V 4'-methylether can induce analogous effects on lipid profile and decrease atherogenic risks,they downregulates the mRNA expression of Esr1 , a gene associated with cholesterologenesis and cholesterol gallstone formation and may also promote the conversion of cholesterol into bile acids as they upregulated Cyp7a1 mRNA expression;thus, their atheroprotective effects may result from their ability to upregulate mechanisms promoting HDL-cholesterol and bile acid formation. ^[3]

Alpinumisoflavone, abyssinone-V 4'-O-methyl ether, 6,8-diprenylgenistein, and burttinone are active against both Gram-negative and Gram-positive bacteria, the minimum inhibitory concentration values obtained (MIC) ranged from 3.9 ug/mL to 125 ug/mL.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in acetonitrile,gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: 25 °C;

The wave length of determination: 260 nm.

[Storage]

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

[References]

- [1] Mvondo M A, Njamen D, Tanee F S, *et al. Phytother. Res.*, 2012, 26(7):1029-36.
- [2] Namkoong S, Kim T J, Jang I S, *et al. Biol. Pharm. Bull.*, 2011, 34(2):203-8.
- [3] Mvondo M A, Njamen D, Kretzschmar G, *et al. J. Pharm. Pharmacol.*, 2015, 67(7): 990-6.
- [4] Chukwujekwu J C, Heerden F R V, Staden J V. *Phytother. Res.*, 2011, 25(1):46-8.
- [5] Bórquez J, Kennelly E J, Simirgiotis M J. *Food Res. Int.*, 2013, 52(1):288-97.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com