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Licoflavone C Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Licoflavone C

Catalog No.: CFN92289

Cas No.: 72357-31-4

Purity: > 98%

M.F: C₂₀H₁₈O₅

M.W: 338.4

Physical Description: Cryst.

Synonyms: 4',5,7-Trihydroxy-8-prenylflavone; 8-Prenylapigenin;

5,7-Dihydroxy-2-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-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 Glycyrrhiza inflata.

[Biological Activity or Inhibitors]

Licoflavone C (LFLC), a naturally occurring prenyl-flavone extracted from Genista

ephedroides, it attenuates the genotoxicity of cancer drugs in human peripheral

lymphocyte, has protective effects toward the chromosome damage induced by

mitomycin C (MMC) or daunorubicin (DAU) in cultured human peripheral lymphocytes.[1]

Licoflavone C enhances the cytotoxicity inducing an apoptotic cell death in H4IIE cells

without affecting antioxidative properties.[2]

Licoflavone C shows a powerful estrogenic activity at 10⁻⁷ M (0.0338 μg/ml) and it is

47.45% than 10^{-8} M 17β -estradiol (0.00272 μg/ml), the estrogenicity of this flavone was

found to be comparable to the activity showed by genistein at 10⁻⁶ M (0.27 µg/ml).^[3]

Licoflavone C and derrone are active against Pseudomonas aeruginosa and Escherichia

coli (7.81-15.62 µg/mL) and show important antifungal activity, they also show strong

cytotoxicity against Hep-2 cells; these two compounds may be interesting antimicrobial

agents to be used against infectious diseases caused by many pathogens.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-1%Formic acid H2O, gradient eiution;

Flow rate: 1.0 ml/min:

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

- [1] Scarpato R, Paganucci L, Bertoli A, et al. Phytother. Res., 2008, 22(12):1650-4.
- [2] Wätjen W, Weber N, Lou Y J, et al. Food Chem. Toxicol., 2007, 45(1):119-24.
- [3] Garritano S, Pinto B, Giachi I, et al. Phytomedicine, 2005, 12(1-2):143-7.
- [4] Edziri H, Mastouri M, Mahjoub M A, et al. Molecules, 2012, 17(6):7284-93.
- [5] Zhang J, Ni H, Qing D G, et al. Chinese Medical Science and Technology, 2012, 19 (3): 233-4.

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