

3-O-Methylquercetin Datasheet

4th Edition (Revised in July, 2016)

OH

[Product Information]

Name: 3-O-Methylquercetin

Catalog No.: CFN99616

Cas No.: 1486-70-0

Purity: > 95%

M.F: C₁₆H₁₂O₇

M.W: 316.26

Physical Description: Yellow powder

Synonyms:3',4',5,7-Tetrahydroxy-3-methoxyflavone;2-(3,4-Dihydroxyphenyl)-3-methoxy-

5,7-dihydroxy-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 herbs of Croton cascarilloides.

[Biological Activity or Inhibitors]

3-O-Methylquercetin(3-MQ), a main constituent of Rhamnus nakaharai Hayata

(Rhamnaceae), can inhibit total cAMP- and cGMP-phosphodiesterase (PDE) of guinea

pig trachealis, 3-MQ is a selective and competitive PDE3/PDE4 inhibitor, although its

inhibitory effect on PDE4 is not potent, thus, 3-MQ may have a potential in the treatment

of asthma beside its antiviral activity. [1]

3-O-Methylquercetin has both anti-inflammatory and bronchodilating effects, and has the

potential for use in the treatment of asthma at a dose without affecting blood pressure. [2]

[Solvent]

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

[HPLC Method][3]

Mobile phase: Methanol- Phosphoric acid-H2O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 370 nm.

[Storage]

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

[References]

[1] Ko W C, Chen M C, Wang S H, et al. Planta Med., 2003, 69(4):310-5.

[2] Ko W C, Shih C M, Chen M C, et al. Planta Med., 2004, 70(12):1123-7.

[3] Liao M D, Zhang XC. China Pharmacist, 2013, 16(12):1856-8.

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