

Quercetin 3,4'-dimethyl ether Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Quercetin 3,4'-dimethyl ether

Catalog No.: CFN98429

Cas No.: 33429-83-3

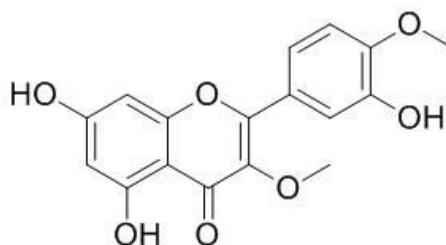
Purity: > 95%

M.F: C₁₇H₁₄O₇

M.W: 330.3

Physical Description: Yellow powder

Synonyms: 5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-3-methoxy-1-benzopyran-4-one; 3',5,7-Trihydroxy-3,4'-dimethoxyflavone.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The branch of *Tamarix chinensis* Lour.

[Biological Activity or Inhibitors]

Quercetin 3,4'-dimethyl ether shows anti-lipid peroxidation activity (IC 50 values of 0.3 uM).^[1]

5,7,3'-Trihydroxy-3,4'-dimethoxyflavone (Quercetin 3,4'-dimethyl ether) has high cytotoxic against leukemia cells, it induces cell death is mediated by an intrinsic dependent apoptotic event involving mitochondria and MAPKs, and through a mechanism independent of the generation of reactive oxygen species, suggests that it could be useful in the development of novel anticancer agents.^[2]

Quercetin 3,4'-dimethyl ether shows anti-inflammatory activity.^[3]

[Solvent]

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

[HPLC Method]

Mobile phase: Methanol-H₂O gradient elution ;

Flow rate: 1.0 ml/min ;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Kwon Y S, Kim C M. *Arch.Pharm.Res.*, 2003, 26(7):535-9.

[2] Fernando Torres, José Quintana, Francisco Estévez. *Mol. Carcinogen.*, 2010, 49(5): 464-75.

[3] Chen F K, Yang X Y. *Chinese Traditional and Herbal Drugs*, 1995(9):467-8.

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