

5-Hydroxy-3',4',7-trimethoxyflavone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 5-Hydroxy-3',4',7-trimethoxyflavone

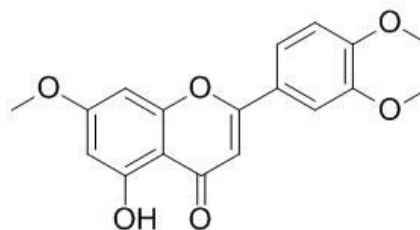
Catalog No.: CFN98361

Cas No.: 29080-58-8

Purity: > 95%

M.F: C₁₈H₁₆O₆

M.W: 328.3



Physical Description: Yellow powder

Synonyms: 5-Hydroxy-7,2',6'-trimethoxyflavone; Luteolin-3'-4',7-trimethyl ether;

2-(3,4-Dimethoxyphenyl)-5-hydroxy-7-methoxychromen-4-one.

[Intended Use]

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

[Source]

The herbs of *Callicarpa bodinieri* Levl.

[Biological Activity or Inhibitors]

5-Hydroxy-3',4',7-trimethoxyflavone has anti-inflammatory activity, it can significantly inhibit nitric oxide production and induce reduction in the mRNA expressions of inducible nitric oxide synthase and cyclooxygenase-2 in lipopolysaccharide-induced inflammation in RAW 264.7 macrophages.^[1]

5-Hydroxy-3, 7, 4'-trimethoxyflavone shows moderate antitrypanosomal activity with MIC value of 19.0 ug/ml.^[2]

5-Hydroxy-7,3',4'-trimethoxyflavone shows antibacterial and antifungal activities against *Bacillus subtilis*, *Staphylococcus aureus*, *Staphylococcus faecalis*, *Echerichia coli*, *Pseudomonas aeruginosa*, *Candida albicans*, *Candida krusei* and *Candida galabrata*.^[3]

5-Hydroxy-3,7,4',-trimethoxyflavone shows potent inhibitory activities against antigen-induced degranulation in RBL-2H3 cells.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O=78:22;

Flow rate:1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination:274 nm.

[Storage]

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

[References]

[1] Sudha A, Jeyakanthan J, Srinivasan P. *Med. Chem. Res.*,2016,25(9):1754-67.

[2] Kamal N, Clements C, Gray A I, *et al. J.Appl. Pharm. Sci.*,2016,6(1):102-6.

[3] G. S. Çitoğlu, B. Sever, S. Antus, *et al. Pharm. Biol.*,2008, 41(7):483-6.

[4] Kobayashi S, Kato T, Azuma T, *et al.* *Journal of Functional Foods*, 2015,13:100-7.

[5] Zhu Y X, Liu W, Zhang J Q, *et al.* *Chinese Traditional Patent Medicine*, 2011,33(10):
1750-4.

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