

3',5,5',7-Tetrahydroxyflavanone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3',5,5',7-Tetrahydroxyflavanone

Catalog No.: CFN99673

Cas No.: 160436-10-2

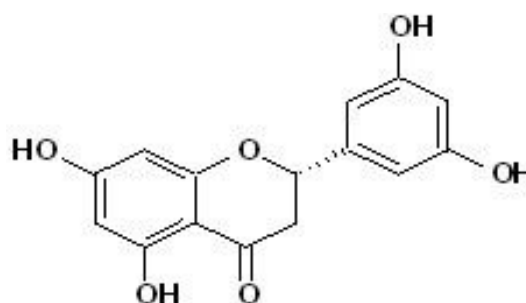
Purity: > 95%

M.F: C₁₅H₁₂O₆

M.W: 288.3

Physical Description: Powder

Synonyms: 4H-1-Benzopyran-4-one,2-(3,5-dihydroxyphenyl)-2,3-dihydro-5,7-dihydroxy-, (S)-; (2S)-5,7,3',5'-Tetrahydroxyflavanone.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herb of *Ilex centrochinensis*.

[Biological Activity or Inhibitors]

5,7,3',5'-Tetrahydroxyflavanone has inhibitory effects on HIV-1 reverse transcriptase (RT)-associated RNase H function, it may have antiviral activity against HIV-1.^[1]

5,7,3',5'-Tetrahydroxyflavanone has anti-inflammatory properties, it can inhibit nitric oxide (NO) production with IC₅₀ values of 18.5 uM, the inhibitory effect is accompanied by dose-dependent decreases in LPS-induced nitric oxide synthase (iNOS) in RAW 264.7 cells.^[2]

[Solvent]

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

[HPLC Method]^[3]

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

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Esposito F, Sanna C, Vecchio C D, *et al. Pathog. Dis.*, 2013, 68(3):116-24.

[2] Van T N, Cuong T D, Hung T M, *et al. Nat.Prod. Commun.*, 2015, 10(3):383-5.

[3] Gaggeri R, Rossi D, Christodoulou M S, *et al. Molecules*, 2012, 17(2):1665-74.

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