Natural Products

ChemFaces

Penduletin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Penduletin

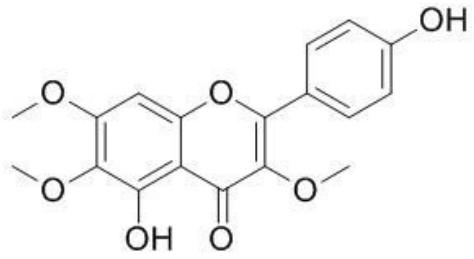
Catalog No.: CFN98957

Cas No.: 569-80-2

Purity: > 95%

M.F: $C_{18}H_{16}O_7$

M.W: 344.3



Physical Description: Yellow powder

Synonyms: 5-Hydroxy-2-(4-hydroxyphenyl)-3,6,7-trimethoxy-1-benzopyran-4-one; 4',5-Dihydroxy-3,6,7-trimethoxyflavone; Candirone.

[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 leaves of *Laggera pterodonta.*

[Biological Activity or Inhibitors]

Penduletin has strong activity in vitro against EV71 with low cytotoxicity, it shows a similar 50% inhibitory concentration (IC_{50}) value of about 0.20 uM, it also inhibits several other human enteroviruses with similar efficacy.[1]

Penduletin inhibits the growth of human glioblastoma cells and induce apoptosis, it presents antitumoral activity to glioblastoma cells.[2]

Penduletin can partially inhibit synovial phospholipase A2 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: 272 nm.

[Storage]

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

[References]

[1] Zhu Q C, Wang Y, Liu Y P, *et al. Eur. J. Pharm .Sci.,2011,44(3):392-8.*

[2] Coelho P L C, Pitanga B P S, Silva V D A D, *et al. Rev. Bras. Farmacogn., 2015, 26(1): 34-43.*

[3] Moscatelli V, Hnatyszyn O, Acevedo C*, et al. Planta Med., 2005, 72(1):72-4.*

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