Natural Products

ChemFaces

Jaceosidin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Jaceosidin

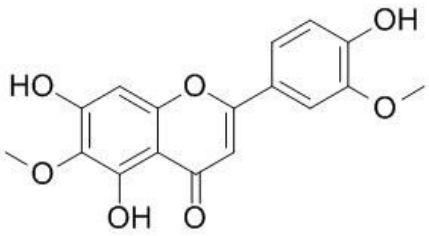
Catalog No.: CFN90386

Cas No.: 18085-97-7

Purity: >= 98%

M.F: $C_{17}H_{14}O_7$

M.W: 330.29



Physical Description: Yellow cryst.

Synonyms:5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-6-methoxy-4H-1-benzopyran-4-one;5,7-dihydroxy-2-(4-hydroxy-3-methoxy-phenyl)-6-methoxy-chromen-4-one;4',5,7-Trihydroxy-3',6-dimethoxyflavone.

[Intended Use]

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

[Source]

The herbs of *Artemisia arctica*.

[Biological Activity or Inhibitors]

Jaceosidin and Eupatilin are bioactive flavones found in the medicinal herbs of the genus Artemisia, exhibit various antioxidant, antiinflammatory, antiallergic, and antitumor activities, jaceosidin is a competitive inhibitor of CYP1A2 with a K(i) value of 3.8 microM and a mixed-type inhibitor of CYP2C9 with K(i) value of 6.4 microM in human liver microsomes.[1]

Jaceosidin has anti-inflammatory effect, may reduce inflammation by inhibiting NF-kappaB activation.[2]

Jaceosidin has anticancer effect and antiproliferation effect , may be contributed by an induction of apoptosis involving cytochrome c release from mitochondria to cytosol, induces apoptosis in ras-transformed human breast epithelial cells through generation of reactive oxygen species.[3,4]

Jaceosidin exerts growth inhibitory effect by arresting the cells at G2/M phase and induction of apoptosis.[5]

[Solvent]

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

[HPLC Method][6]

Mobile phase: Acetonitrile-0.2% Phosphoric acid=37:63 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 ℃;

The wave length of determination: 330 nm.

[Storage]

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

[References]

[1] Ji H Y, Kim S Y, Kim D K, *et al. Molecules, 2010, 15(9):6466-75.*

[2] Min S W, Kim NJBaek N I. *J. Ethnopharmacol., 2009, 125(3):497-500.*

[3] Min‐Jung K, Do‐Hee K, Won L K, *et al. Ann. N. Y. Acad. Sci., 2007, 1095(1):483-95.*

[4] Lv W, Sheng X, Chen T, *et al. J Biomed. Biotechnol., 2008(1):394802.*

[5] Khan M, Yu B, Rasul A, *et al. Evid.-based. Compl. Al., 2011, 2012(1):72-9.*

[6] Zhou Q, Sun L L, Jiang B, *et al. China Pharmacy, 2013, 24(47):4464-6.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com