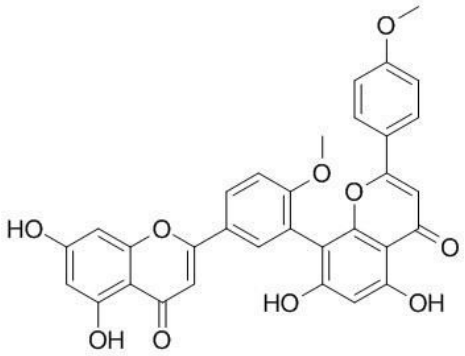
Natural Products

ChemFaces

Isoginkgetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]



Name: Isoginkgetin

Catalog No.: CFN90174

Cas No.: 548-19-6

Purity: > 98%

M.F: $C_{32}H_{22}O_{10}$

M.W: 566.51

Physical Description: Yellow cryst.

Synonyms:8-[5-(5,7-dihydroxy-4-oxo-1-benzopyran-2-yl)-2-methoxyphenyl]-5,7-dihydroxy-2-(4-methoxyphenyl)-1-benzopyran-4-one.

[Intended Use]

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

[Source]

The leaves of *Ginkgo biloba L.*.

[Biological Activity or Inhibitors]

Isoginkgetin can inhibits tumor cell invasion by regulating phosphatidylinositol 3-kinase/Akt-dependent matrix metalloproteinase-9 expression.[1]

Isoginkgetin is a general inhibitor of both the major and minor spliceosomes,it inhibits splicing both in vivo and in vitro at similar micromolar concentrations; isoginkgetin has been previously described as an anti-tumor agent, suggest that splicing inhibition is the mechanistic basis of the anti-tumor activity of isoginkgetin, thus, pre-mRNA splicing inhibitors may represent a novel avenue for development of new anti-cancer agents.[2]

Isoginkgetin enhances adiponectin secretion from differentiated adiposarcoma cells via a novel pathway involving AMP-activated protein kinase.[3]

Isoginkgetin (0.3mg/kg ip for 3d) can reduce the level of 0_0~-in plasma and erythroeyte (p0.01) and sometimes increase the activity of SOD in anoxic rats, the action being stronger than aspirin.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Acetonitrile- H2O, gradient eiution;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Yoon S O, Shin S, Lee H J, *et al. Mol. Cancer Ther., 2006, 5(11):2666-75.*

[2] O'Brien K, Matlin A J, Lowell A M, *et al. J. Biol. Chem., 2008, 283(48):33147-54.*

[3] Liu G, Grifman M, Macdonald J, *et al. J. Endocrinol., 2007, 194(3):569-78.*

[4] Pan S. *Traditional Chinese Drug Research & Clinical Pharmacology, 1993(2):12-4*

[5] Li B, Hu G S, Hu L L, *et al. Chinese herbal medicine, 2014, 45 (17): 2552-5.*

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