Natural Products

ChemFaces

Sappanone A Datasheet

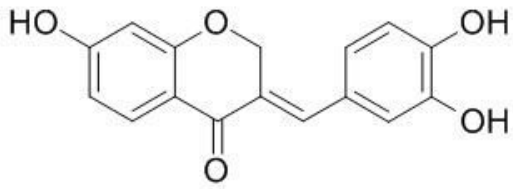
4th Edition (Revised in July, 2016)

[Product Information]

Name: Sappanone A

Catalog No.: CFN92014

Cas No.: 102067-84-5



Purity: > 95%

M.F: $C_{16}H_{12}O_5$

M.W: 284.3

Physical Description: Cryst.

Synonyms:3-[(3,4-Dihydroxyphenyl)methylene]-2,3-dihydro-7-hydroxy-4H-1-benzopyran-4-one.

[Intended Use]

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

[Source]

The heartwoods of *Caesalpinia sappan*.

[Biological Activity or Inhibitors]

Sappanone A has melanogenesis inhibitory activity, it can dose-dependently inhibit both melanogenesis and cellular tyrosinase activity via repressing tyrosinase gene expression in mouse B16 melanoma cells.[1]

Sappanone A exerts its anti-inflammatory effect by modulating the Nrf2 and NF-κB pathways, and may be a valuable compound to prevent or treat inflammatory diseases.[2]

Sappanone A has antioxidant and anti-inflammatory effects, treatment of sappanone A can improve cisplatin (CP)-induced histopathalogical injury and renal dysfunction through activating Nrf2 and inhibiting NF-κB activation, it is a potential therapeutic drug for treating CP-induced kidney injury. [3]

Sappanone A can inhibit ovalbumin (OVA)--induced asthma by activating the Nrf2 signaling pathway, it may have a potential use as a therapeutic agent for asthma.[4]

Sappanone A can significantly attenuate endothelial cell damage induced by H_2O_2.[5]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Chang T S, Chao S Y, Ding H Y. *Int. J. Mol. Sci., 2012, 13(8):10359-67.*

[2] Lee S, Choi S Y, Choo Y Y, *et al. Int. Immunopharmacol., 2015, 28(1):328-36.*

[3] Kang L, Zhao H, Chen C, *et al. Int. Immunopharmacol., 2016, 38:246-51.*

[4] Liu X, Yu D, Wang T. *Int. Arch. Allergy Imm.,2016;170(3):180-6.*

[5] Zhao H X, Bai H, Li W, *et al. Food & Drug, 2010, 12(5):176-80.*

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