

Flavokawain A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Flavokawain A

Catalog No.: CFN98446

Cas No.: 3420-72-2

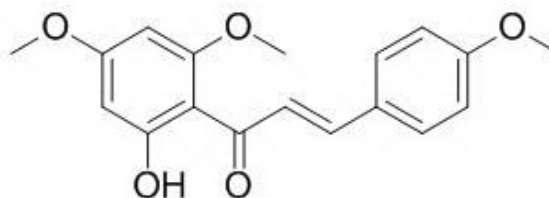
Purity: > 95%

M.F: C₁₈H₁₈O₅

M.W: 314.3

Physical Description: Yellow powder

Synonyms: 2'-Hydroxy-4,4',6'-trimethoxy-trans-chalcone.



[Intended Use]

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

[Source]

The roots of *Piper methysticum*.

[Biological Activity or Inhibitors]

Flavokawain A may exert anti-inflammatory responses by suppressing LPS-induced expression of pro-inflammatory mediators via blockage of NF- κ B-AP-1-JNK/p38 MAPK signaling pathways in the murine macrophages.^[1]

Flavokawain A has anti-cancer properties, it induces apoptosis in MCF-7 and MDA-MB231 and inhibits the metastatic process in vitro.^[2]

Flavokawain A can inhibit the anchorage-dependent and independent growth of breast cancer cell lines and cause G2M arrest via down-regulation of Cdc2 inhibitors: Myt1 and Wee1.^[3]

Flavokawain A and B can stimulate splenocyte proliferation, the secretion of IL-2 and TNF- α and raise the population of T cell subsets without significantly altering the level of several serum biochemical parameters, thus, they could serve as potential immune-modulator drugs without causing any toxicity.^[4]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Kwon D J, Ju S M, Youn G S, *et al. Food Chem. Toxicol.*,2013 Aug;58:479-86.

[2] Abu N, Akhtar M N, Yeap S K, *et al. Plos One*,2014,9(10):e105244.

[3] Tang Y, Simoneau A, Zi X. *Cancer Res.*,2007, 67:1580-1580.

[4] Abu N, Mohameda N E, Tangarajoo N, *et al. Nat.Prod.Commun.*,2015 Jul;10(7):1199-202.

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