[ Product Information ]

Name: Flavokawain B
Catalog No.: CFN92661
Cas No.: 1775-97-9
Purity: > 98%
M.F: C_{17}H_{16}O_{4}
M.W: 284.3

Physical Description: Powder

Synonyms: (E)-1-(2-hydroxy-4,6-dimethoxyphenyl)-3-phenyl-2-propen-1-one;
2'-Hydroxy-4',6'-dimethoxychalcone.

[ Intended Use ]

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

[ Source ]

The roots of *Piper methysticum*. 
[ **Biological Activity or Inhibitors**]

Flavokawain B(FKB), a kava chalcone, induces apoptosis via up-regulation of death-receptor 5 and Bim expression in androgen receptor negative, hormonal refractory prostate cancer cell lines and reduces tumor growth; the robust mechanisms for FKB induction of apoptosis preferentially for HRPC and the potential usefulness of FKB for prevention and treatment of HRPC in an adjuvant setting.\(^1\)

Flavokawain B acts through ROS generation and GADD153 up-regulation to regulate the expression of Bcl-2 family members, thereby inducing mitochondrial dysfunction and apoptosis in HCT116 cells.\(^2\)

Flavokawain B inhibits growth of human squamous carcinoma cells, involved with apoptosis and cell cycle dysregulation in vitro and in vivo.\(^3\)

Flavokawain B has in vivo antitumor and antimetastatic effects in 4T1 breast cancer cell-challenged mice.\(^4\)

Flavokawain B has anti-inflammatory activity, it significantly inhibits production of NO and PGE(2) in LPS-induced RAW 264.7 cells, it also strongly suppresses LPS-induced iNOS, COX-2, and NF-kappaB proteins expression in mouse liver.\(^5\)

Flavokawin B has antinociceptive activity, the NO/cyclic guanosine monophosphate/PKC/ATP-sensitive K\(^+\) channel pathway possibly participated in the antinociceptive action induced by FKB.\(^6\)

[ **Solvent** ]

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

[ **HPLC Method** ]\(^7\)

Mobile phase: Acetonitrile- 40 mM Formic acid H2O, gradient eiuition;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 350 nm.
[ **Storage** ]

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

[ **References** ]


[ **Contact**]

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