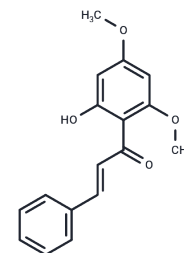


Flavokawain B

Chemical Properties

CAS No. :	1775-97-9
Formula:	C17H16O4
Molecular Weight:	284.31
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	1. Flavokawain B (Flavokavain B) has potent anti-inflammatory activity, can significantly inhibit production of NO and PGE2 in LPS-induced RAW 264.7 cells. 2. Flavokawain B, the hepatotoxic constituent from kava root, induces GSH-sensitive oxidative stress through modulation of IKK/NF-κB and MAPK signaling pathways. 3. Flavokawain B induces apoptosis, has the potential usefulness of FKB for prevention and treatment of hormone-refractory prostate cancer in an adjuvant setting. 4. 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.
Targets(IC50)	Apoptosis, MMP, Bcl-2 Family, NF-κB, Akt, Caspase, p38 MAPK, PARP, PI3K, ROS

Solubility Information

Solubility	DMSO: 65 mg/mL (228.62 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5173 mL	17.5864 mL	35.1729 mL
5 mM	0.7035 mL	3.5173 mL	7.0346 mL
10 mM	0.3517 mL	1.7586 mL	3.5173 mL
50 mM	0.0703 mL	0.3517 mL	0.7035 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang T , Yamamoto N , Yamashita Y , et al. The chalcones cardamonin and flavokawain B inhibit the differentiation of preadipocytes to adipocytes by activating ERK[J]. Archives of Biochemistry and Biophysics, 2014, 554:44-54.

Zhang B, Zhao J, Wang Z, et al. Identification of Multi-Target Anti-AD Chemical Constituents From Traditional Chinese Medicine Formulae by Integrating Virtual Screening and In Vitro Validation. Frontiers in Pharmacology. 2021: 1781

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