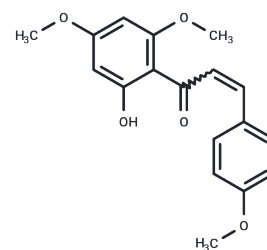


## (Iso) -Flavokawain A

### Chemical Properties

CAS No. :	3420-72-2
Formula:	C <sub>18</sub> H <sub>18</sub> O <sub>5</sub>
Molecular Weight:	314.332
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



### Biological Description

Description	NSC-37445 has anti-tumor activity, such as inhibits growth of bladder tumor cells in a nude mice model , prevents the recurrence and progression of non-muscle-invasive urothelial cell carcinoma. NSC-37445 can significantly reduce the expression of CDK1-inhibitory kinases, Myt1 and Wee1, and cause cyclin B1 protein accumulation leading to CDK1 activation in T24 cells. 3. Flavokawain A (Flavokavain A) may exert anti-inflammatory responses by suppressing LPS-induced expression of pro-inflammatory mediators via blockage of NF-κB-AP-1-JNK/p38 MAPK signaling pathways in the murine macrophages.
Targets(IC50)	Apoptosis,ERK,Histone Methyltransferase,Akt,Caspase,NO Synthase,COX,Cytochromes P450,IAP,JNK,p38 MAPK,PI3K,Survivin

### Solubility Information

Solubility	DMSO: 55 mg/mL (174.97 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.95 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.1814 mL	15.9068 mL	31.8137 mL
5 mM	0.6363 mL	3.1814 mL	6.3627 mL
10 mM	0.3181 mL	1.5907 mL	3.1814 mL
50 mM	0.0636 mL	0.3181 mL	0.6363 mL

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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

Kwon D J , Ju S M , Youn G S , et al. Suppression of iNOS and COX-2 expression by flavokawain A via blockade of NF- $\kappa$ B and AP-1 activation in RAW 264.7 macrophages[J]. Food & Chemical Toxicology An International Journal Published for the British Industrial Biological Research Association, 2013, 58(3):479-486.

Xiao T, Bao J, Tian J, et al. Flavokawain A suppresses the vasculogenic mimicry of HCC by inhibiting CXCL12 mediated EMT. Phytomedicine. 2023: 154687.

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