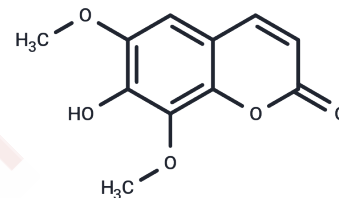


## Isofraxidin

## Chemical Properties

CAS No. :	486-21-5
Formula:	C <sub>11</sub> H <sub>10</sub> O <sub>5</sub>
Molecular Weight:	222.19
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	1. Isofraxidin (Phytodolor) protects leukemia cells from radiation-induced apoptosis via ROS/mitochondria pathway in a p53-independent manner. 2. Isofraxidin has a protective effect against LPS-induced ALI, and the protective effect of Isofraxidin seems to result from the inhibition of COX-2 protein expression in the lung, which regulates the production of PGE2. 3. Isofraxidin possesses significant analgesic and anti-inflammatory activities that may be mediated through the regulation of pro-inflammatory cytokines, TNF- $\alpha$ and the phosphorylation of p38 and ERK1/2.
Targets(IC50)	MMP,ERK,COX,p38 MAPK,TLR

## Solubility Information

Solubility	DMSO: 40 mg/mL (180.03 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+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9 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	4.5007 mL	22.5033 mL	45.0065 mL
5 mM	0.9001 mL	4.5007 mL	9.0013 mL
10 mM	0.4501 mL	2.2503 mL	4.5007 mL
50 mM	0.090 mL	0.4501 mL	0.9001 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

Yamazaki T , Tokiwa T . Isofraxidin, a coumarin component from *Acanthopanax senticosus*, inhibits matrix metalloproteinase-7 expression and cell invasion of human hepatoma cells.[J]. *Biological & Pharmaceutical Bulletin*, 2010, 33(10):1716.

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