

## Licoisoflavone B

## Chemical Properties

CAS No. : 66056-30-2

Formula: C<sub>20</sub>H<sub>16</sub>O<sub>6</sub>

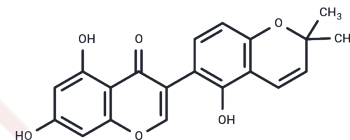
Molecular Weight: 352.34

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	Licoisoflavone B is an isoflavonoid from Glycyrrhiza uralensis Fisch. Licoisoflavone B inhibits lipid peroxidation and inhibits human cytochrome P450 enzymes (CYP2C8 and CYP2C9).
Targets(IC50)	Others
In vitro	We present the results of an in vitro investigation of the inhibitory effects of licoisoflavone A and Licoisoflavone B and sophoraisoflavone A isolated from Sophra mooracroftiana BETH ex BAKER on copper-induced protein oxidative modification of mice brain homogenate in vitro. Although inhibitory effect of sophoraisoflavone A was stronger than those of licoisoflavone A and Licoisoflavone B, genistein as a related isoflavone, and mannitol as a hydroxy radical scavenger, inhibitory effects of licoisoflavone A and Licoisoflavone B were weaker than those of genistein and mannitol [1]

## Solubility Information

Solubility	DMSO: 40 mg/mL (113.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.84 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	2.8382 mL	14.1908 mL	28.3817 mL
5 mM	0.5676 mL	2.8382 mL	5.6763 mL
10 mM	0.2838 mL	1.4191 mL	2.8382 mL
50 mM	0.0568 mL	0.2838 mL	0.5676 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

Toda S, et al. Inhibitory effects of licoisoflavones A and B and sophoraisoflavone A of *Sophora mooracroftiana* Beth ex Baker on copper-ion-induced protein oxidative modification of mice brain homogenate, in vitro. *Biol Trace Elem Res.* 2001 Aug;81(2):169-75.

Li D, et al. The Application of Ultra-High-Performance Liquid Chromatography Coupled with a LTQ-Orbitrap Mass Technique to Reveal the Dynamic Accumulation of Secondary Metabolites in Licorice under ABA Stress. *Molecules.* 2017 Oct 20;22(10):1742.

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