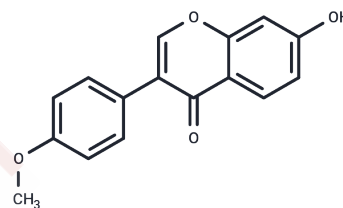


## Formononetin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 485-72-3  |
| Formula:          | C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>  |
| Molecular Weight: | 268.26  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | Formononetin (Flavosil) is an O-methylated isoflavone and a phytoestrogen from the root of Astragalus membranaceus. |
| Targets(IC50) | Apoptosis,FGFR  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | Ethanol: < 1 mg/mL (insoluble or slightly soluble),<br>DMSO: 35 mg/mL (130.47 mM),Sonication and heating are recommended.<br>H2O: < 1 mg/mL (insoluble or slightly soluble),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 2 mg/mL (7.46 mM),Sonication is recommended.<br><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

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.7277 mL | 18.6386 mL | 37.2773 mL |
| 5 mM  | 0.7455 mL | 3.7277 mL  | 7.4555 mL  |
| 10 mM | 0.3728 mL | 1.8639 mL  | 3.7277 mL  |
| 50 mM | 0.0746 mL | 0.3728 mL  | 0.7455 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

Liu XJ, et al. Asian Pac J Y Prev. 2014;15(6):2835-9.

Zhou Z W, Zhu X Y, Li S Y, et al. Formononetin Inhibits Mast Cell Degranulation to Ameliorate Compound 48/80-Induced Pseudoallergic Reactions. Molecules. 2023, 28(13): 5271.

Luo H, Yang S, Deng P, et al. Network pharmacology combined with transcriptomics reveals that formononetin, a biologically component of Astragalus membranaceus (Fisch.) Bunge, inhibits the PI3K/Akt signaling pathway to improve chronic renal failure. Journal of Ethnopharmacology. 2024: 119041.

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