

Formononetin

Chemical Properties

CAS No. :	485-72-3
Formula:	C16H12O4
Molecular Weight:	268.264
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	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), DMSO: 35.00 mg/mL (130.47 mM),Sonication and heating are recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.00 mg/mL (7.46 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

	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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