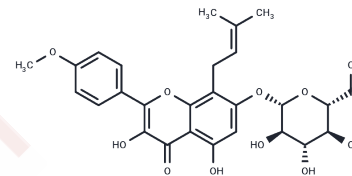


## Icariside I

## Chemical Properties

CAS No. :	56725-99-6
Formula:	C <sub>27</sub> H <sub>30</sub> O <sub>11</sub>
Molecular Weight:	530.52
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	Icariside I (Lcariside I) is isolated from Epimedium herb. It can stimulate osteogenic differentiation of BMSCs and inhibit bone resorption activity of osteoclasts.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others,Aryl Hydrocarbon Receptor,Caspase,NOD-like Receptor (NLR),CDK,STAT,PD-1/PD-L1,IFNAR,JAK,ROS

## Solubility Information

Solubility	DMSO: 62.5 mg/mL (117.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: < 6.25 mg/mL (11.78 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 6.25 mg/mL (11.78 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 6.25 mg/mL (11.78 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 6.25 mg/mL (11.78 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	1.8849 mL	9.4247 mL	18.8494 mL
5 mM	0.377 mL	1.8849 mL	3.7699 mL
10 mM	0.1885 mL	0.9425 mL	1.8849 mL
50 mM	0.0377 mL	0.1885 mL	0.377 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

Ming LG, et al. Functions and action mechanisms of flavonoids genistein and icariin in regulating bone remodeling. *J Cell Physiol.* 2013 Mar;228(3):513-21

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Hou M, Li H, He T, et al. Icariside I reduces breast cancer proliferation, apoptosis, invasion, and metastasis probably through inhibiting IL-6/STAT3 signaling pathway. *Journal of Pharmacy and Pharmacology.* 2023: rgad103.

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