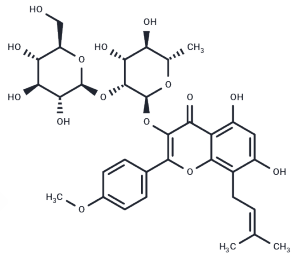
Data Sheet (Cat.No.TQ0163)

TargetMol

Sagittatoside A

Chemical Properties



CAS No. : 118525-35-2

Formula: C33H40O15

Molecular Weight: 676.66

Storage: Keep away from moisture
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	Sagittatoside A (Icariin-A) is a flavonoid glycoside that can be extracted from Herba Epimedii. It induces the phosphorylation of serine 118 in the ERα, selectively activating estrogen response elements (ERE) and luciferase activity.
Targets(IC50)	Others
In vitro	In Sagittatoside A (24h) treatment, the expression of Bax, caspase-9 and caspase-3 in HepG2 cells increased in a concentration-dependent manner, while the expression of Bcl-2 decreased. [1]
In vivo	For 100 μM Sagittatoside A, the zebrafish mortality rate at 4 dpf was 16.7%. [2]

Solubility Information

Solubility	DMSO: 20 mg/mL (29.56 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: 2 mg/mL (2.96 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4778 mL	7.3892 mL	14.7785 mL
5 mM	0.2956 mL	1.4778 mL	2.9557 mL
10 mM	0.1478 mL	0.7389 mL	1.4778 mL
50 mM	0.0296 mL	0.1478 mL	0.2956 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

Zhang L, et al. Evaluation on the Potential for Hepatotoxic Components from Herba Epimedii to Induce Apoptosis in HepG2 Cells and the Analysis of the Influence of Metabolism in Liver Microsomes. Molecules. 2024 Mar 19;29(6):1354.

Zhong R, et al. The Toxicity and Metabolism Properties of Herba Epimedii Flavonoids on Laval and Adult Zebrafish. Evid Based Complement Alternat Med. 2019 Mar 3;2019:3745051.