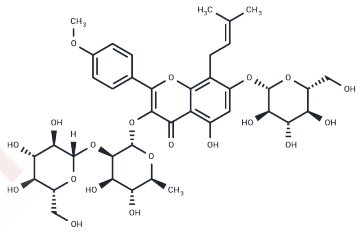
Data Sheet (Cat.No.T3906)

TargetMol

Epimedin A

Chemical Properties



CAS No. : 110623-72-8

Formula: C39H50O20

Molecular Weight: 838.80

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	Epimedin A has anti-osteoporosis activities in vivo.
Targets(IC50)	Others,NF-κB,Akt,Caspase,NOD-like Receptor (NLR),Nrf2,Interleukin,PI3K,ROS

Solubility Information

Solubility	DMSO: 245 mg/mL (292.08 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: 5.00 mg/mL (5.96 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (11.92 mM),Solution. *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	1.1922 mL	5.9609 mL	11.9218 mL
5 mM	0.2384 mL	1.1922 mL	2.3844 mL
10 mM	0.1192 mL	0.5961 mL	1.1922 mL
50 mM	0.0238 mL	0.1192 mL	0.2384 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

Li HB1, Chen F.Separation and purification of epimedin A, B, C, and icariin from the medicinal herb Epimedium brevicornum maxim by dual-mode HSCCC.J Chromatogr Sci. 2009 May-Jun;47(5):337-40.
Gao Y, Xu G, Ma L, et al. Icariside I specifically facilitates ATP or nigericin-induced NLRP3 inflammasome activation and causes idiosyncratic hepatotoxicity. Cell Communication and Signaling. 2021 Feb 11;19(1):13. doi: 10.1186/s12964-020-00647-1.
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Zhang HF1, Yang TS, Li ZZ, Wang Y.Simultaneous extraction of epimedin A, B, C and icariin from Herba Epimedii by ultrasonic technique.Ultrason Sonochem. 2008 Apr;15(4):376-85.
Chen J1, Xu Y2, Wei G1, Liao S1,et al.Chemotypic and genetic diversity in Epimedium sagittatum from different geographical regions of China.
Gao Y, Xu G, Ma L, et al. Icarisid I specifically facilitates ATP or nigericin-induced NLRP3 inflammasome activation and causes idiosyncratic hepatotoxicity[J]. Cell Communication and Signaling. 2020
Gao Y, Xu G, Ma L, et al. Icariside I specifically facilitates ATP or nigericin-induced NLRP3 inflammasome activation and causes idiosyncratic hepatotoxicity[J]. Cell Communication and Signaling. 2021, 19(1): 1-14.