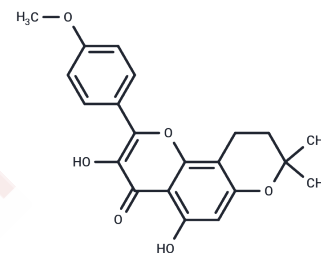


β-Anhydroicaritin

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 38226-86-7 |
| Formula: | C ₂₁ H ₂₀ O ₆ |
| Molecular Weight: | 368.38 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|--|
| Description | 1. β-Anhydroicaritin exhibits immunosuppressive effect on the mouse macrophages stimulated by LPS. 2. β-Anhydroicaritin phytosomes can inhibit enhanced bone turnover induced by ovariectomy, improve BMD the biomechanical properties of vertebrae, without any stimulation on uterus. 3. β-Anhydroicaritin possesses significant protective effects on the zymosan-induced peritonitis mice, which might be associated with the regulation of Ca(2+); influx in macrophages and iNOS expression. |
| Targets(IC50) | MMP, Interleukin, TNF |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 7.46 mg/mL (20.25 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: 0.75 mg/mL (2.04 mM), Solution. <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 | 2.7146 mL | 13.5729 mL | 27.1459 mL |
| 5 mM | 0.5429 mL | 2.7146 mL | 5.4292 mL |
| 10 mM | 0.2715 mL | 1.3573 mL | 2.7146 mL |
| 50 mM | 0.0543 mL | 0.2715 mL | 0.5429 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

- 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
- Wang Z, Xu G, Wang H, et al. Icariside II, a main compound in Epimedii Folium, induces idiosyncratic hepatotoxicity by enhancing NLRP3 inflammasome activation. Acta Pharmaceutica Sinica B. 2020
- 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.
- Wang Z, Xu G, Wang H, et al. Icariside II Contributes to Epimedii folium-Induced Hepatotoxicity Through Enhancing NLRP3 Inflammasome Activation[J]. Epimedii folium. 2019.
- Gao Y, Xu G, Ma L, et al. Icarisid I specifically facilitates ATP or nigericin-induced NLRP3 inflammasome activation and causes idiosyncratic hepatotoxicity. Cell Communication and Signaling. 2020
- 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.

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