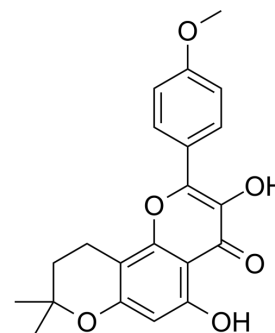


β-Anhydroicaritin

Cat. No.:	HY-N1940
CAS No.:	38226-86-7
Molecular Formula:	C ₂₁ H ₂₀ O ₆
Molecular Weight:	368.38
Target:	Interleukin Related; TNF Receptor; MMP
Pathway:	Immunology/Inflammation; Apoptosis; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (22.61 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

β-Anhydroicaritin is isolated from *Boswellia carterii* Birdware, has important biological and pharmacological effects, such as antiosteoporosis, estrogen regulation and antitumor properties^[1]. β-Anhydroicaritin ameliorates the degradation of periodontal tissue and inhibits the synthesis and secretion of TNF-α and MMP-3 in diabetic rats^[2]. β-Anhydroicaritin decreases the overproduction of NO, IL-10, TNF-α, MCP-1 and IL-6 in inperitonitis mice. β-Anhydroicaritin inhibits the elevation of intracellular Ca²⁺, and markedly decreases iNOS protein expression^[3].

IC₅₀ & Target

IL-10

IL-6

MMP-3

CUSTOMER VALIDATION

- J Ethnopharmacol. 2021 Nov 2;114796.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Nguyen VS, et al. Synthesis of Icaritin and β -anhydroicaritin Mannich Base Derivatives and Their Cytotoxic Activities on Three Human Cancer Cell Lines. *Anticancer Agents Med Chem.* 2017;17(1):137-142
- [2]. Wu Y, et al. Effect of β -anhydroicaritin on the expression levels of tumor necrosis factor- α and matrix metalloproteinase-3 in periodontal tissue of diabetic rats. *Mol Med Rep.* 2015 Aug;12(2):1829-37.
- [3]. Lai X, et al. Protective effect of anhydroicaritin against peritonitis in mice. *Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi.* 2013 Oct;29(10):1036-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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