

Product Name: Icariin

Product Number: I032

CAS Number: 489-32-7

Molecular Formula: $C_{33}H_{40}O_{15}$

Molecular Weight: 676.66

Storage Conditions: 2-8°C

Description: Icariin is a flavonol glycoside that can be found in traditionally medicinal herb *Herb Epimedii*. Like many other flavonoids, it exhibits pharmacologically promising bioactivities. Icariin in particular has shown antioxidant, anti-inflammatory, anticancer and antiviral activities. In a paper by Zhang et al., Icariin both exerted its own antitumor activity and potentiated the antitumor activity of gemcitabine.

Icariin is soluble in pyridine, and insoluble in water and alcohol.

References: Tan, H., Chan, K., Pusparajah, P., Saokaew, S., Duangjai, A., Lee, L., & Goh, B. (2016). Anti-Cancer Properties of the Naturally Occurring Aphrodisiacs: Icariin and Its Derivatives. *Frontiers in Pharmacology*, 7.doi:10.3389/fphar.2016.00191

Xiong, W., Ma, X., Wu, Y., Chen, Y., Zeng, L., Liu, J., . . . Hu, Y. (2015). Determine the structure of phosphorylated modification of icariin and its antiviral activity against duck hepatitis virus A. *BMC Veterinary Research*, 11(1). doi:10.1186/s12917-015-0459-9