

## PRODUCT: **Icariin**

**ALTERNATE NAME:** 4'-O-methyl-8- $\gamma$ , $\gamma$ -dimethylallylkaempferol-3-rhamnoside-7-glucoside

**CATALOG #:** B2261-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>33</sub>H<sub>40</sub>O<sub>15</sub>

**MOLECULAR WEIGHT:** 676.66

**CAS NUMBER:** 489-32-7

**APPEARANCE:** Light yellow to yellow solid

**SOLUBILITY:** DMSO (~ 50 mg/ml)

**PURITY:** ≥95% by HPLC

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Icariin is the active component of the Chinese medicinal plant *E. brevicornum* that acts as an inhibitor of human phosphodiesterase 5 (PDE5) (IC<sub>50</sub> = 5.9  $\mu$ M). Icariin also promotes the growth and proliferation of neural stem cells from rat hippocampus in a dose-dependent manner.

**REFERENCES:** Fu, X., *et al.* (2018). *BMC Complement. Alt. Med.* **18**, 34

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

### RELATED PRODUCTS:

AN-2728 (Cat. No. B2220-5,25)

Apremilast (Cat. No. 2352-5, 25)

Cilomilast (Cat. No. B2182-5,25)

Cilostamide (Cat. No. 2560-5, 25)

Cilostazol (Cat. No. 2393-5, 25)

GSK-356278 (Cat. No. B1292-5,25)

IBMX (Cat. No. 1714-100)

Icariin (Cat. No. B2261-10,50)

Milrinone (Cat. No. 2163-5, 25)

PhosphoSeek™ PDE5 A Assay Kit (Cat. No. K705-400)

PDE3 Antibody (Cat. No. 3956-200)

PF-04447943 (Cat. No. B1264-5,25)

Pimobendan (Cat. No. 9676-50, 250)

(R,S)-Rolipram (Cat. No. 2010-5)

EZSolution™ Rolipram (Cat. No. B2250-5)

RO 20-1724 (Cat. No. 2042-50, 250)

Roflumilast (Cat. No. 2675-10, 50)

Sildenafil Citrate (Cat. No. 2872-10,50)

TAK-063 (Cat. No. B1067-10, 50)

Zaprinast (Cat. No. 1715-25)

**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**