



## Product Information

### PDE inhibitor, Icariin, Purity $\geq 98\%$

**Cat. No.:** X24-08-YM480

**Size:** 50 mg; 100 mg; 250 mg; 500 mg

**MDL:** MFCD00210516

**CAS Number:** 489-32-7

**Compound CID:** 5318997

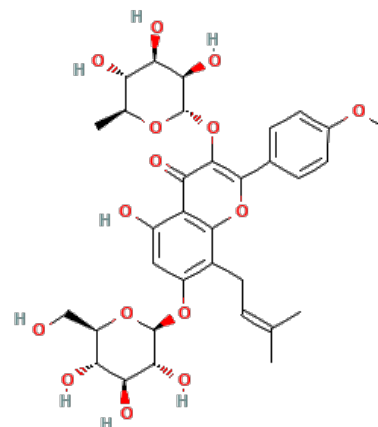
**Synonym:** 489-32-7; Icariline;

5-Hydroxy-2-(4-methoxyphenyl)-8-(3-methylbut-2-enyl)-7-[(2S,3R,4S,5S,6R

)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-3-[(2S,3R,4R,5R,6S

)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxychromen-4-one

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	Icariin, soluble in DMSO and insoluble in water and ethanol, is an effective cell metabolism inhibitor, that has the ability to prevent the pathway of metabolism by inhibiting PDE. It targets the PDE5.
<b>Molecular Weight</b>	676.7
<b>Molecular Formula</b>	C <sub>33</sub> H <sub>40</sub> O <sub>15</sub>
<b>Targets</b>	PDE5: 0.432 $\mu$ M
<b>IUPAC Name</b>	5-Hydroxy-2-(4-methoxyphenyl)-8-(3-methylbut-2-enyl)-7-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-3-[(2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxychromen-4-one
<b>InChI</b>	InChI=1S/C33H40O15/c1-13(2)5-10-17-19(45-33-28(42)26(40)23(37)20(12-34)46-33)11-18(35)21-24(38)31(48-32-27(41)25(39)22(36)14(3)44-32)29(47-30(17)21)15-6-8-16(43-4)9-7-15/h5-9,11,14,20,22-23,25-28,32-37,39-42H,10,12H2,1-4H3/t14-,20+,22-,23+,25+,26-,27+,28+,32-,33+/m0/s1
<b>InChI Key</b>	PZRHRDRVRGEVNW-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC1=C(C=C(C(=O)N1)C#N)C2=CC=NC=C2
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$



---

<b>Titer</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
<b>Solubility</b>	<i>In vitro</i> : DMSO: 46 mg/mL (67.98 mM); Water: insoluble; Ethanol: insoluble
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Icariin is a metabolism inhibitor that can be studied extensively for its potential therapeutic applications in the treatment of osteoporosis, improving sexual function, and offering cardiovascular protection.
<b>Storage</b>	Store at -20°C, and keep desiccated.

---