Product datasheet

Icariin ab142891

Overview

Product name: Icariin
Description: Selective cGMP specific PDE5 inhibitor
Biological description: Selective cGMP specific PDE5 inhibitor (IC\text{50} = 0.4 and 74 \, \mu M for PDE5 and PDE4 respectively). Shows anti-inflammatory and antitumor effects \textit{in vivo}. Orally active.
Purity: > 98%

Properties

Chemical name: 5-Hydroxy-2-(4-methoxyphenyl)-8-(3-methylbut-2-enyl)-7-\{(\text{2S,3R,4R,5S,6R})-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl\}oxy-3-\{(\text{2S,3R,4R,5S,6R})-3,4,5-trihydroxy-6-methyloxan-2-yl\}oxochromen-4-one
Molecular weight: 676.66
Chemical structure:

\[
\text{C}_{33}\text{H}_{40}\text{O}_{15}
\]
CAS Number: 489-32-7
PubChem identifier: 5318997
Storage instructions: Store at +4°C. The product can be stored for up to 12 months.
Solubility overview: Soluble in DMSO to 50 mM
Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: CC1(C(C(C(O1)OC2=C(C(C2=O)C=C(C=C3CC=C(C)C)OC4C(C(C(C4O)CO)O)O)O)O)O)
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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