

Product Name: (2R/S)-6-PNG

Catalog No.: 6651

Batch No.: 1

CAS Number: 68682-01-9

IUPAC Name: 2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₀O₅·¼H₂O

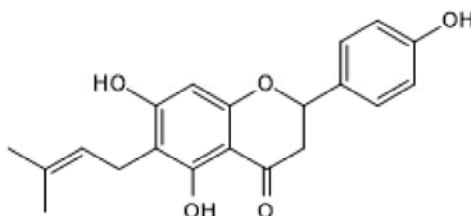
Batch Molecular Weight: 344.87

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 69.65 5.99

Found 69.52 6.08

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Ca_v3.2 (T-type) Ca²⁺ channel blocker (IC₅₀ = 991 nM).
Suppresses neuropathic allodynia in mouse pain models.

Physical and Chemical Properties:

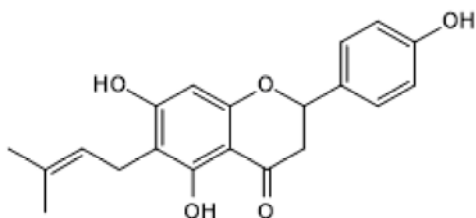
Batch Molecular Formula: C₂₀H₂₀O₅·¹/₄H₂O

Batch Molecular Weight: 344.87

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Sekiguchi et al (2018) Blockade of T-type calcium channels by 6-prenylnaringenin, a hop component, alleviates neuropathic and visceral pain in mice. *Neuropharmacology* **138** 232. PMID: 29913186.

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