Product Name: Apigenin  
CAS Number: 520-36-5  
IUPAC Name: 5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{15}H_{10}O_{5}.H_{2}O  
   Batch Molecular Weight: 288.2152  
   Physical Appearance: Yellow solid  
   Solubility: DMSO to 50 mM  
   Storage: Desiccate at +4°C  
   Batch Molecular Structure:

   ![Chemical Structure]

2. ANALYTICAL DATA

   Melting Point: Between 274 - 276°C  
   HPLC: Shows 97.1% purity  
   ¹H NMR: Consistent with structure  
   Microanalysis:

<table>
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<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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</tbody>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** Apigenin  
**Catalog No.:** 1227  
**Batch No.:** 1

**CAS Number:** 520-36-5  
**EC Number:** 208-292-3  
**IUPAC Name:** 5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one

**Description:**
Protein kinase inhibitor. Suppresses tumor-promoting effects of TPA and exhibits antiproliferative activity in human breast cancer cells (IC_{50} values are 59.44 and 31.15 μM at 24 and 72 hrs respectively). Activates both the intrinsic and extrinsic apoptotic pathways and displays anti-inflammatory, hypotensive, antispasmodic and antioxidant properties in vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{15}H_{10}O_{5}.H_{2}O
- **Batch Molecular Weight:** 288.2152
- **Physical Appearance:** Yellow solid
- **Minimum Purity:** >97%

**Batch Molecular Structure:**
![Batch Molecular Structure](image)

**Storage:** Desiccate at +4°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 50 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:**


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