Product Name: Quercetin Catalo
Catalog No.: 1125 Batch No.: 1
CAS Number: 117-39-5 EC Number: 204-187-1
IUPAC Name: 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{15}H_{10}O_{7}
Batch Molecular Weight: 302.24
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: 
R_f = 0.4 (Dichloromethane: Methanol [10:1])

Melting Point: Greater than 300°C

HPLC: Shows 98.3% purity

^1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>53.26</td>
<td>4.17</td>
<td>0</td>
</tr>
<tr>
<td>Found</td>
<td>53.19</td>
<td>3.92</td>
<td>0</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Quercetin

CAS Number: 117-39-5
IUPAC Name: 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one

Catalog No.: 1125
Batch No.: 1
EC Number: 204-187-1

Description:
Antitumor agent; induces apoptosis and inhibits synthesis of heat shock proteins. Inhibits many enzyme systems including tyrosine protein kinase, phospholipase A₂, phosphodiesterases, mitochondrial ATPase, PI 3-kinase and protein kinase C. Can also activate Ca²⁺ and K⁺ channels and behaves as an agonist at estrogen (GPER) receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₅H₁₀O₇
Batch Molecular Weight: 302.24
Physical Appearance: Yellow solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT
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

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:
Merck Index 12 8216.


