1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{20}\text{H}_{12}\text{O}_{7} \cdot 2\frac{1}{2}\text{H}_{2}\text{O}$

Batch Molecular Weight: 409.35

Physical Appearance: Black solid

Solubility: DMSO to 75 mM, ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:

![Batch Molecular Structure](image)

2. ANALYTICAL DATA

$^1\text{H NMR}$: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>58.68</td>
<td>58.51</td>
<td>0.17</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.19</td>
<td>3.99</td>
<td>0.20</td>
</tr>
</tbody>
</table>

Certificate of Analysis

Print Date: Jan 13th 2016

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

CAS Number: 2103-64-2
IUPAC Name: 3',4',5',6'-Tetrahydroxyspiro[isobenzofuran-1(3H),9'-9H]xanthen-3-one

Description:
Inhibitor of G protein βγ subunit-dependent signaling. Blocks PI 3-kinase and Rac1 activation in HL60 cells and chemotaxis in HL60 differentiated cells.

Physical and Chemical Properties:
Batch Molecular Formula: C_{20}H_{12}O_{7}.2\frac{1}{2}H_{2}O
Batch Molecular Weight: 409.35
Physical Appearance: Black solid
Minimum Purity: >97%

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 75 mM
ethanol to 10 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: