Product Name: Galloflavin
Catalog No.: 4795
Batch No.: 2

CAS Number: 1780260-20-9
IUPAC Name: 3,8,9,10-Tetrahydroxypyrano[3,2-c][2]benzopyran-2,6-dione potassium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{12}\text{H}_5\text{O}_8\text{K}$.2$\text{H}_2\text{O}$

Batch Molecular Weight: 352.29

Physical Appearance: Brown solid

Solubility: DMSO to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.91</td>
<td>40.74</td>
</tr>
<tr>
<td>2.57</td>
<td>2.69</td>
</tr>
</tbody>
</table>

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

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Description:
Inhibitor of human lactate dehydrogenase (LDH) (K values are 5.46 and 15.1 μM for LDH-A and LDH-B, respectively, in competition with pyruvate). Inhibits lactate production and decreases ATP synthesis in PLD/PRF/5 cells; thought to decrease cell viability via impairment of aerobic glycolysis.

Physical and Chemical Properties:
Batch Molecular Formula: C_{12}H_{10}O_{9}K.2H_{2}O
Batch Molecular Weight: 352.29
Physical Appearance: Brown solid
Minimum Purity: >95%

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 5 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: