1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C₁₀H₇NO₃</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>189.17</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>Off White solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>DMSO to 100 mM, ethanol to 20 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at +4°C</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>Shows 99.9% purity</td>
</tr>
<tr>
<td>¹H NMR</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Mass Spectrum</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Microanalysis</td>
<td>Carbon Hydrogen Nitrogen</td>
</tr>
<tr>
<td></td>
<td>Theoretical: 63.49 3.73 7.4</td>
</tr>
<tr>
<td></td>
<td>Found: 63.55 3.69 7.49</td>
</tr>
</tbody>
</table>

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

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Tel:+1 612 379 2956
Product Name: CHC  
Catalog No.: 5029  
Batch No.: 2

CAS Number: 28166-41-8  
IUPAC Name: 2-Cyano-3-(4-hydroxyphenyl)-2-propenoic acid

Description:
Monocarboxylic acid transport (MCT) inhibitor. Exhibits antitumoral and antiangiogenic activity in gliomas in vivo; decreases glycolytic metabolism, migration, and invasion in U251 cells. Enhances the effect of antitumor agent temozolomide (Cat No. 2706). Blocks lactate efflux from glioma cells and sensitizes cells to irradiation.

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{7}NO_{3}  
Batch Molecular Weight: 189.17  
Physical Appearance: Off White solid  
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM  
ethanol to 20 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: