1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( \text{C}_{17}\text{H}_{14}\text{N}_2\text{O}_3 \)
- **Batch Molecular Weight:** 294.31
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.8 \) (Diethyl ether)
- **HPLC:** Shows 98.5% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.38</td>
<td>68.3</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.79</td>
<td>4.79</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>9.52</td>
<td>9.61</td>
</tr>
</tbody>
</table>
Product Name: PHCCC
CAS Number: 179068-02-1
IUPAC Name: N-Phenyl-7-(hydroxyimino)cyclopropa[b]chromen-1a-carboxamide

Description:
Group I metabotropic glutamate receptor antagonist (IC₅₀ ~ 3 μM); 67 times more potent than (S)-4-carboxyphenylglycine (Cat. No. 0323). Also a positive allosteric modulator for mGlu₄, potentiates L-AP4-mediated inhibition of striatopallidal synaptic transmission in vitro. Displays anti-Parkinsonian effects in rats in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₇H₁₅N₂O₃
Batch Molecular Weight: 294.31
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at RT

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: