1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_8\text{H}_8\text{NO}_3\text{Cl} \)
Batch Molecular Weight: 201.61
Physical Appearance: Off White solid
Solubility: 1.1eq. NaOH to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows >99.6% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>47.66</td>
<td>47.45</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4</td>
<td>3.79</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.95</td>
<td>6.9</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: CHPG  
Catalog No.: 1049  
Batch No.: 18

**Description:**
A selective mGlu₅ metabotropic glutamate receptor agonist, completely inactive at mGlu₁₆ receptors expressed in CHO cells. Active in vivo. Sodium Salt also available.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₁₀H₇NO₂Cl
- **Batch Molecular Weight:** 201.61
- **Physical Appearance:** Off White solid
- **Minimum Purity:** >99%
- **Physical Structure:**

![Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
1.1eq. NaOH 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:**
- **Ugolini et al (1999)** Potentiation of NMDA and AMPA responses by the specific mGlu5 agonist CHPG in spinal cord motoneurones. Neuropharmacology 38 1569. PMID: 10530818.
- **Doherty et al (1997)** (RS)-2-Chloro-5-hydroxyphenylglycine (CHPG) activates mGlu₅, but not mGlu₁, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus. Neuropharmacology 36 265. PMID: 9144665.