1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $\text{C}_{12}\text{H}_8\text{N}_3\text{O}_3\text{Cl}$
- **Batch Molecular Weight:** 277.67
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM
- **1eq. HCl to 100 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.48$ (Chloroform:Methanol [9:1])
- **HPLC:** Shows >99.1% purity
- **$^1\text{H NMR:}$** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>51.91</td>
<td>51.53</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>2.9</td>
<td>2.98</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>15.13</td>
<td>14.85</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: T0070907
Catalog No.: 2301
Batch No.: 1

CAS Number: 313516-66-4
IUPAC Name: 2-Chloro-5-nitro-N-4-pyridinylbenzamide

**Description:**
Potent and selective irreversible PPARγ antagonist (IC₅₀ = 1 nM). Displays > 800-fold selectivity for PPARγ over PPARα and PPARδ. Blocks transcriptional activity of PPARγ in vitro and inhibits rosiglitazone-induced adipogenesis.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C₁₉H₁₄N₃O₄Cl
- Batch Molecular Weight: 277.67
- Physical Appearance: White solid
- Minimum Purity: >99%

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 100 mM
- 1eq. HCl 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:**