1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{21}\text{Cl}_{3}\text{N}_{4}\text{O} \)

Batch Molecular Weight: 500.25

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 99.4% 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>C</td>
<td>52.82</td>
<td>52.64</td>
</tr>
<tr>
<td>H</td>
<td>4.43</td>
<td>4.39</td>
</tr>
<tr>
<td>N</td>
<td>11.19</td>
<td>10.84</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: SR 141716A
Catalog No.: 0923
Batch No.: 4
CAS Number: 158681-13-1
IUPAC Name: \(N\)-(Piperidin-1-yl)-5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-1H-pyrazole-3-carboxamide hydrochloride

**Description:**
Potent and selective cannabinoid CB\(_1\) receptor antagonist (\(K_i = 1.98\) nM). Also acts as an inverse agonist reversing adenylyl cyclase inhibition by WIN 55,212-2 (Cat.No. 1038) (\(IC_{50} = 48\) nM). Displays no activity at CB\(_2\) receptors. Reduces food intake and body weight in orally dosed non-obese Wistar rats. Also \(\mu\)-opioid receptor antagonist (\(K_i = 652\) nm)

**Physical and Chemical Properties:**
- Batch Molecular Formula: \(C_{22}H_{21}Cl_3N_2O\)
- Batch Molecular Weight: 500.25
- Physical Appearance: White solid
- Minimum Purity: \(\geq 99\%\)
- Batch Molecular Structure:

![Molecular Structure](image)

**Solubility & Usage Info:**
DMSO to 100 mM

**Storage:** Desiccate at RT

**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.

**Other Information:**
INFORMATION FOR CUSTOMERS IN THE UK ONLY
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**References:**