1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{19}\text{Cl}_{2}\text{I}_4\text{N}_4\text{O}_2 \)

Batch Molecular Weight: 557.22

Physical Appearance: White solid

Solubility: DMSO to 75 mM with gentle warming

Storage: Desiccate at +4°C

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

TLC: \( \text{R}_f = 0.28 \) (Ethyl acetate:Petroleum ether [3:1])

HPLC: Shows 99.1% purity

\(^1\text{H NMR:}\): Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>45.27</td>
<td>45.22</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.44</td>
<td>3.45</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>10.05</td>
<td>9.96</td>
</tr>
</tbody>
</table>
Description:
Potent, selective CB₁ cannabinoid receptor antagonist/inverse agonist (Kᵢ values are 12 and 4200 nM for CB₁ and CB₂ receptors respectively). Increases locomotor activity following systemic administration in vivo. Analog of SR141716A (Kᵢ = 14 nM).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₁H₁₉Cl₂IN₄O₂
Batch Molecular Weight: 557.22
Physical Appearance: White solid
Minimum Purity: ≥99%

Storage: Desiccate at +4°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 75 mM with gentle warming

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.

Licensing Information:
Sold with the permission of the University of Connecticut

References: