1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{17}\text{H}_{12}\text{Cl}_{3}\text{N}_{3}\text{O}$
Batch Molecular Weight: 380.66
Physical Appearance: Off White solid
Solubility: DMSO to 20 mM, ethanol to 20 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: $R_f = 0.46$ (1:1 Petroleum ether:Dichloromethane)
HPLC: Shows 99.1% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>53.64</td>
<td>3.18</td>
<td>11.04</td>
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<tr>
<td>Found</td>
<td>53.86</td>
<td>3.09</td>
<td>10.95</td>
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</tbody>
</table>
Product Name: AM4113  
CAS Number: 614726-85-1  
IUPAC Name: 5-(4-Chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-1H-pyrazole-3-carboxamide

Description:  
High affinity and selective CB₂ antagonist (Kᵢ = 0.89 nM). Exhibits 100-fold selectivity for CB₁ over CB₂. Attenuates CB₁ agonist AM 411-induced locomotor suppression and reduces food intake in vivo, but does not induce signs of nausea.

Physical and Chemical Properties:  
Batch Molecular Formula: C₁₁H₁₂Cl₅N₂O  
Batch Molecular Weight: 380.66  
Physical Appearance: Off White solid  
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:  
DMSO to 20 mM  
ethanol to 20 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:  