1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{31}\text{NO}_{3} \)

Batch Molecular Weight: 357.49

Physical Appearance: Pale yellow oil

Solubility: Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

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

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>73.92</td>
<td>73.83</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>8.74</td>
<td>8.77</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>3.92</td>
<td>3.97</td>
</tr>
</tbody>
</table>
Description:
Potent and selective CB2 receptor agonist ($K_i = 12.8 \text{ nM}; EC_{50} = 38.67 \text{ nM}$). Exhibits negligible affinity for the CB1 receptor ($K_i > 40,000 \text{ nM}$) and no activity at the GPR55. Suppresses neuroinflammation by reducing microglial activation in a multiple sclerosis mouse model. BBB permeable; anti-inflammatory and neuroprotective.

Physical and Chemical Properties:
Batch Molecular Formula: $\text{C}_{22}\text{H}_{31}\text{NO}_3$
Batch Molecular Weight: 357.49
Physical Appearance: Pale yellow oil
Minimum Purity: $\geq 98\%$

Storage: Store at -20°C

Solubility & Usage Info:
Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)
This compound is supplied pre-dissolved in Methyl acetate (10mg/ml). To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of PM 226 is greater than 100mM in both DMSO and Ethanol.

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: