1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Weight: 500.25

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

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

Mass Spectrum: Consistent with structure
Description:
Potent and selective cannabinoid CB₁ receptor antagonist \((K_i = 1.98 \text{ nM})\). Also acts as an inverse agonist reversing adenylyl cyclase inhibition by WIN 55,212-2 (Cat.No. 1038) \((IC_{50} = 48 \text{ nM})\). Displays no activity at CB₂ receptors. Reduces food intake and body weight in orally dosed non-obese Wistar rats. Also μ-opioid receptor antagonist \((K_i = 652 \text{ nm})\).

Physical and Chemical Properties:
Batch Molecular Formula: \(\text{C}_{22}\text{H}_{21}\text{Cl}_2\text{N}_2\text{O}.\text{HCl}\)
Batch Molecular Weight: 500.25
Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:
DMSO 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.

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:
