1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{22}H_{21}Cl_{3}N_{4}O \)
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: Carbon Hydrogen Nitrogen

Theoretical 52.82 4.43 11.19
Found 52.64 4.39 10.84
Description:
Potent and selective cannabinoid CB₁ receptor antagonist (Kᵢ = 1.98 nM). Also acts as an inverse agonist reversing adenylyl cyclase inhibition by WIN 55,212-2 (Cat.No. 1038) (IC₅₀ = 48 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 (Kᵢ = 652 nm)

Physical and Chemical Properties:
Batch Molecular Formula: C₃₂H₂₂Cl₂N₂O
Batch Molecular Weight: 500.25
Physical Appearance: White solid
Minimum Purity: ≥99%

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: