

Product Name: SR 141716A

Catalog No.: 0923

Batch No.: 5

CAS Number: 158681-13-1

IUPAC Name: *N*-(Piperidin-1-yl)-5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-1*H*-pyrazole-3-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁Cl₃N₄O.HCl

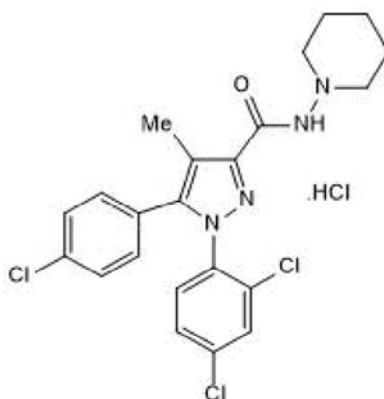
Batch Molecular Weight: 500.25

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent and selective cannabinoid CB₁ receptor antagonist (K_i = 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 (K_i = 652 nm)

Physical and Chemical Properties:

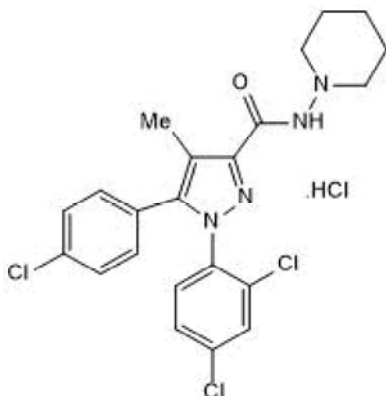
Batch Molecular Formula: C₂₂H₂₁Cl₃N₄O.HCl

Batch Molecular Weight: 500.25

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Seely et al (2012) AM-251 and rimon. act as direct antagonists at mu-opioid receptors: implications for opioid/cannabinoid interaction studies. *Neuropharmacology* **63** 905. PMID: 22771770.

Janiak et al (2007) Blockade of cannabinoid CB₁ receptors improves renal function, metabolic profile, and increased survival of obese Zucker rats. *Kidney Int.* **72** 1345. PMID: 17882151.

Colombo et al (1998) Appetite suppression and weight loss after the cannabinoid antagonist SR 141716. *Life Sci.* **63** 113. PMID: 9718088.

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.

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