

Certificate of Analysis

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Product Name: MJ 15

Catalog No.: 4063

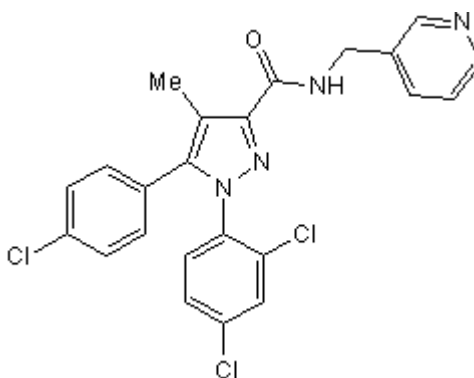
Batch No.: 1

CAS Number: 944154-76-1

IUPAC Name: 5-(4-Chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-*N*-(3-pyridinylmethyl)-1*H*-pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₇Cl₃N₄O
Batch Molecular Weight: 471.77
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate)
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.55	3.64	11.88
Found	58.69	3.6	11.87

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

Product Information

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IUPAC Name: 5-(4-Chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-N-(3-pyridinylmethyl)-1H-pyrazole-3-carboxamide

Description:

Potent and selective CB₁ receptor antagonist (K_i = 27.2 pM, IC_{50} = 118.9 pM for rat CB₁ receptors). Exhibits potency in obesity and hyperlipidemia models; inhibits food intake and increases in body weight in diet-induced obese rats and mice.

Physical and Chemical Properties:

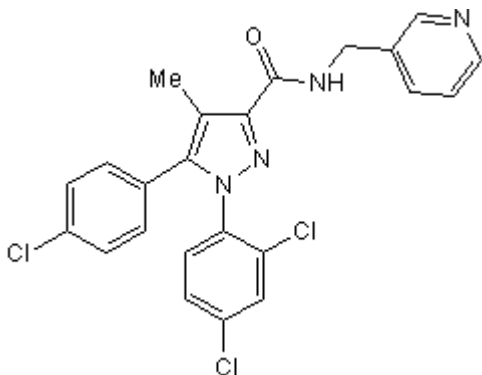
Batch Molecular Formula: C₂₃H₁₇Cl₃N₄O

Batch Molecular Weight: 471.77

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store 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.

References:

Chen et al (2010) Novel, selective antagonist of the cannabinoid CB₁ receptor, MJ15, with prominent anti-obesity effect in rodent models. *Eur.J.Pharmacol.* **637** 178. PMID: 20380831.

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