

## Certificate of Analysis

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**Product Name:** AM4113

**Catalog No.:** 6193

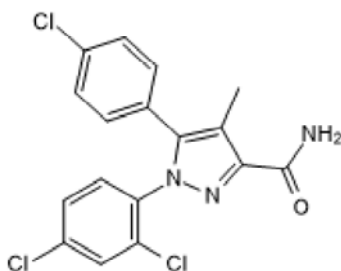
**Batch No.:** 1

CAS Number: 614726-85-1

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> Cl <sub>3</sub> N <sub>3</sub> O
<b>Batch Molecular Weight:</b>	380.66
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 20 mM ethanol to 20 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.46 (1:1 Petroleum ether:Dichloromethane)
<b>HPLC:</b>	Shows 99.1% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	53.64	3.18	11.04
Found	53.86	3.09	10.95

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

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**Description:**

High affinity and selective CB<sub>1</sub> antagonist (K<sub>d</sub> = 0.89 nM). Exhibits 100-fold selectivity for CB<sub>1</sub> over CB<sub>2</sub>. Attenuates CB<sub>1</sub> agonist AM 411-induced locomotor suppression and reduces food intake in vivo, but does not induce signs of nausea.

**Physical and Chemical Properties:**

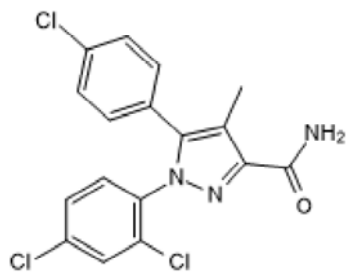
Batch Molecular Formula: C<sub>17</sub>H<sub>12</sub>Cl<sub>3</sub>N<sub>3</sub>O

Batch Molecular Weight: 380.66

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Hodge et al** (2008) The cannabinoid CB<sub>1</sub> receptor inverse agonist AM 251 and antagonist AM 4113 produce similar effects on the behavioral satiety sequence in rats *Behav. Brain Res.* **193** 298. PMID: 18602425.

**Sink et al** (2008) The novel cannabinoid CB<sub>1</sub> receptor neutral antagonist AM4113 suppresses food intake and food-reinforced behavior but does not induce signs of nausea in rats. *Neuropsychopharmacology* **33** 946. PMID: 17581535 .

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 mM

ethanol to 20 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.

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