Print Date: Apr 3rd 2014

Certificate of Analysis

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Product Name: (±)-SLV 319 **Catalog No.: 4605** **Batch No.: 1**

CAS Number: 362519-49-1

IUPAC Name: 3-(4-Chlorophenyl)-*N*-[(4-Chlorophenyl)sulfonyl]-4,5-dihydro-*N*'-methyl-4-phenyl-1*H*-pyrazole-1-carboximidamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{20}Cl_2N_4O_2S$

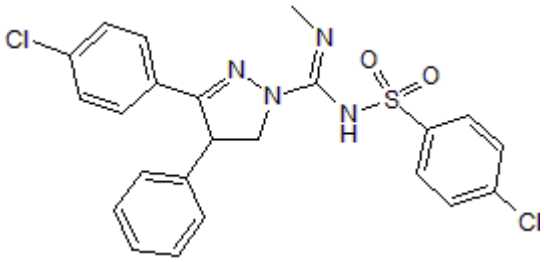
Batch Molecular Weight: 487.4

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.85 (Chloroform:Methanol [9:1])

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.68	4.14	11.49
Found	56.5	4.18	11.51

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Description:

Potent and selective CB_1 receptor antagonist (K_i = 7.8 nM). Exhibits 1000-fold selectivity for CB_1 over CB_2 receptors. Inhibits CP 55,940-induced hypotension and WIN 55,212-2-induced hypothermia in vivo. Orally active.

Physical and Chemical Properties:

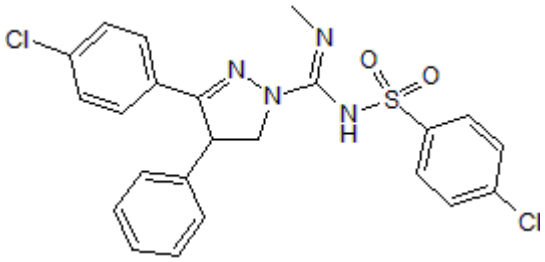
Batch Molecular Formula: $C_{23}H_{20}Cl_2N_4O_2S$

Batch Molecular Weight: 487.4

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 mM with gentle warming

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:

Lange *et al* (2004) Synthesis, biological properties, and molecular modeling investigations of novel 3,4-diarylpyrazolines as potent and selective CB_1 cannabinoid receptor antagonists. J.Med.Chem. ***47*** 627. PMID: 14736243.

Lange *et al* (2005) Novel 3,4-diarylpyrazolines as potent cannabinoid CB1 receptor antagonists with lower lipophilicity. Bioorg.Med.Chem.Lett. ***15*** 4794. PMID: 16140010.