

Certificate of Analysis

Product Name: ML 141

Catalog No.: 4266

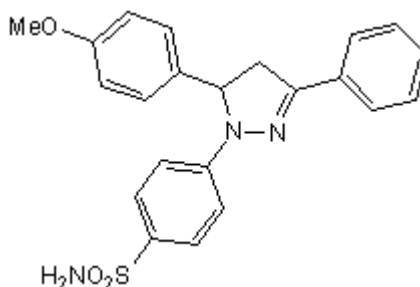
Batch No.: 2

CAS Number: 71203-35-5

IUPAC Name: 4-[4,5-Dihydro-5-(4-methoxyphenyl)-3-phenyl-1H-pyrazol-1-yl]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁N₃O₃S
Batch Molecular Weight: 407.49
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.61 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.85	5.19	10.31
Found	64.86	5.1	10.25

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

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Description:

Allosteric inhibitor of Cdc42 GTPase ($EC_{50} = 2.1 \mu\text{M}$). Selective for Cdc42 over other members of the Rho GTPase family including Rac1, Rab2 and Rab7. Inhibits ovarian cancer cell migration in vitro.

Physical and Chemical Properties:

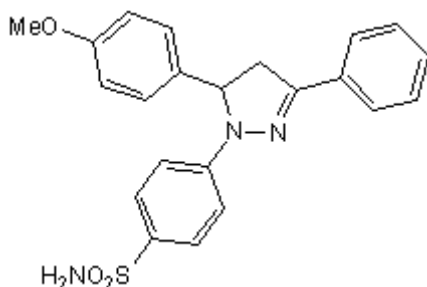
Batch Molecular Formula: $C_{22}H_{21}N_3O_3S$

Batch Molecular Weight: 407.49

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 5 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:

Hong et al (2013) Characterization of a Cdc42 GTPase Inhibitor and its Use as a Molecular Probe. *J.Biol.Chem.* Epub. PMID: 23382385.

Surviladze et al (2010) A potent and selective inhibitor of Cdc42 GTPase. *Probe Reports from the Molecular Libraries Program* NBK5196. PMID: 21433396.

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