

Certificate of Analysis

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Product Name: SD 169

Catalog No.: 2938

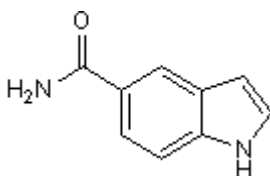
Batch No.: 1

CAS Number: 1670-87-7

IUPAC Name: 1*H*-Indole-5-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₈N₂O
Batch Molecular Weight: 160.17
Physical Appearance: Off-white solid
Solubility: water to 10 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.49	5.03	17.48
Found	67.16	4.99	17.1

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

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CAS Number: 1670-87-7

IUPAC Name: 1*H*-Indole-5-carboxamide

Description:

Selective, orally active, ATP-competitive inhibitor of p38α MAPK (IC₅₀ values are 3.2, 122 and > 50000 nM for p38α, p38β and p38γ respectively). Demonstrates no activity against a range of other kinases including ERK2, JNK1 and MAPKAP2. Prevents development of diabetes and alleviates mild and moderate hyperglycaemic states in NOD mice.

Physical and Chemical Properties:

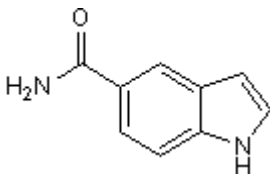
Batch Molecular Formula: C₉H₈N₂O

Batch Molecular Weight: 160.17

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Myers et al (2003) Inhibition of p38 MAP kinase activity enhances axonal regeneration. *Exp.Neurol.* **184** 606. PMID: 14769353.

Medicherla et al (2006) Preventive and therapeutic potential of p38α-selective mitogen-activated protein kinase inhibitor in nonobese diabetic mice with type 1 diabetes. *J.Pharmacol.Exp.Ther.* **318** 99. PMID: 16603672.

Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 mM

DMSO to 100 mM

ethanol 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.

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