

Certificate of Analysis

Product Name: IWP L6

Catalog No.: 4992

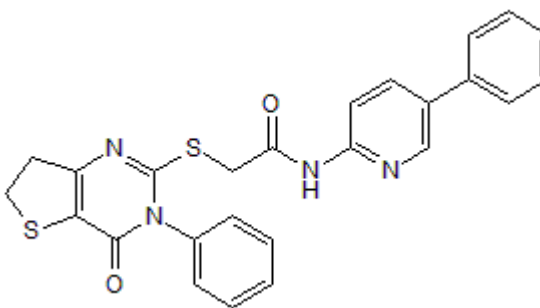
Batch No.: 1

CAS Number: 1427782-89-5

IUPAC Name: *N*-(5-Phenyl-2-pyridinyl)-2-[(3,4,6,7-tetrahydro-4-oxo-3-phenylthieno[3,2-*d*]pyrimidin-2-yl)thio]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₀N₄O₂S₂
Batch Molecular Weight: 472.58
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.17 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.54	4.27	11.86
Found	63.39	4.23	11.78

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

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Description:

Potent inhibitor of Porcupine (PORCN), a membrane-bound O-acyltransferase (MBOAT) (EC₅₀ = 0.5 nM). Shown to inhibit Wnt-dependent processes such as tailfin regeneration and posterior axis formation in zebrafish; also reduces branching morphogenesis in cultured mouse embryonic kidneys.

Physical and Chemical Properties:

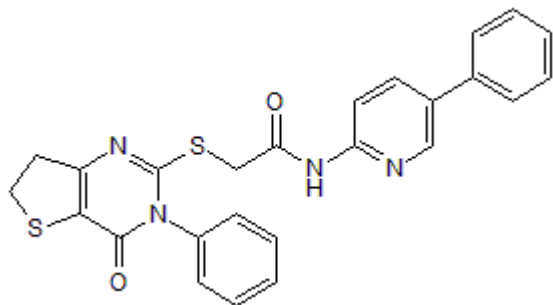
Batch Molecular Formula: C₂₅H₂₀N₄O₂S₂

Batch Molecular Weight: 472.58

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

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:

Wang et al (2013) The development of highly potent inhibitors for Porcupine. *J.Med.Chem.* **56** 2700. PMID: 23477365.

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