

**Product Name:** IWP 2

**Catalog No.:** 3533

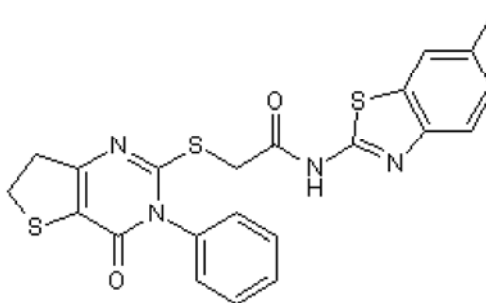
**Batch No.:** 8

CAS Number: 686770-61-6

IUPAC Name: *N*-(6-Methyl-2-benzothiazolyl)-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:** C<sub>22</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>S<sub>3</sub>·½H<sub>2</sub>O  
**Batch Molecular Weight:** 471.1  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 5 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.09	3.96	11.89
Found	55.94	3.86	11.95

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

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**Description:**

Inhibitor of Wnt processing and secretion. Inactivates PORCN, a membrane-bound O-acyltransferase (MBOAT), and selectively inhibits palmitoylation of Wnt. Blocks Wnt-dependent phosphorylation of Lrp6 receptor and Dvl2, and  $\beta$ -catenin accumulation. Suppresses self-renewal in R1 embryonic stem cells and promotes cardiomyocyte differentiation from hPSCs.

**Physical and Chemical Properties:**

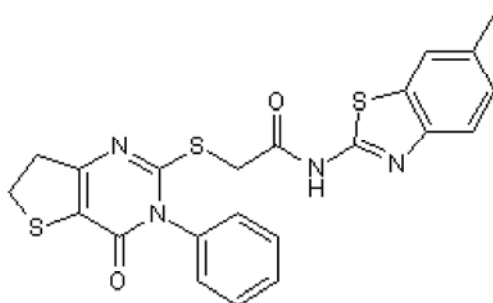
Batch Molecular Formula: C<sub>22</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>S<sub>3</sub>.1/4H<sub>2</sub>O

Batch Molecular Weight: 471.1

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 5 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:**

Noor *et al* (2019) 3D Printing of Personalized Thick and Perfusable Cardiac Patches and Hearts. *Adv Sci* (Weinh) **6** 1900344. PMID: 31179230.

Hoang *et al* (2018) Generation of spatial-patterned early-developing cardiac organoids using human pluripotent stem cells. *Nat.Protoc.* **13** 723. PMID: 29543795.

Lian *et al* (2012) Robust cardiomyocyte differentiation from human pluripotent stem cells via temporal modulation of canonical Wnt signaling. *Proc.Natl.Acad.Sci.U S A* **109** E1848. PMID: 22645348.

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