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## DATASHEET

IWP 2

### Product overview

<b>Name</b>	IWP 2
<b>Cat No</b>	HB0344
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent Wnt pathway inhibitor and PORCN inhibitor. Suppresses R1 ESC self-renewal. Used in the production of cardiac organoids.

### Images



### Biological Data

<b>Biological description</b>	Potent Wnt pathway inhibitor ( $IC_{50} = 27$ nM) and PORCN inhibitor.  It also inhibits Dishevelled-2 (Dvl2- a Wnt-Fz signalling component) and LRP5/6 phosphorylation without inducing axin stability.  It blocks phagocytosis and secretion of pro-inflammatory cytokines.  Additionally, it suppresses R1 ESC self-renewal and may be used in the production of cardiac organoids.
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### Solubility & Handling

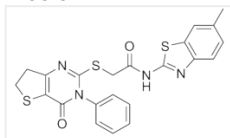
<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (10mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>N</i> -(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-tetrahydro-4-oxo-3-phenylthieno[3,2- <i>d</i> ]pyrimidin-2-yl)thio]-acetamide
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**Molecular Weight**  
**Chemical structure**

466.6



**Molecular Formula**  
**CAS Number**  
**PubChem identifier**  
**SMILES**  
**InChiKey**

C<sub>22</sub>H<sub>18</sub>N<sub>4</sub>O<sub>2</sub>S<sub>3</sub>

686770-61-6

2155128

CC1=CC2=C(C=C1)N=C(S2)NC(=O)CSC3=NC4=C(C(=O)N3C5=CC=CC=C5)SCC4

WRKPZSMRWPJJDH-UHFFFAOYSA-N

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## References

**Wnt-frizzled signaling is part of an FGF-induced cascade that promotes lens fiber differentiation.**

Dawes LJ *et al* (2013) Invest Ophthalmol Vis Sci 54(3)

**PubMedID**

[23385791](#)

**Porcupine is not required for the production of the majority of Wnts from primary human astrocytes and CD8+ T cells.**

Richards MH *et al* (2014) PLoS One 9(3)

**PubMedID**

[24647048](#)

**Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer.**

Chen B *et al* (2009) Nat Chem Biol 5(2)

**PubMedID**

[19125156](#)

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