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DATASHEET

IWP 2

Product overview

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

Images



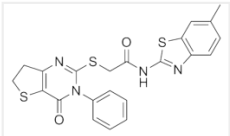
Biological Data

Biological description	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

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

Chemical Data

Chemical name	N-(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-tetrahydro-4-oxo-3-phenylthieno[3,2-d]pyrimidin-2-yl)thio]-acetamide
Molecular Weight	466.6
Chemical structure	
Molecular Formula	C ₂₂ H ₁₈ N ₄ O ₂ S ₃
CAS Number	686770-61-6
PubChem identifier	2155128
SMILES	<chem>CC1=CC2=C(C=C1)N=C(S2)NC(=O)CSC3=NC4=C(C(=O)N3C5=CC=CC=C5)SCC4</chem>
InChiKey	WRKPZSMRWPJJDH-UHFFFAOYSA-N

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)

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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](#)