Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **DATASHEET**

#### **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 ( $IC_{50} = 27 \text{ nM}$ ) 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.

# **Solubility & Handling**

Solubility overview Storage instructions Storage of solutions

**Important** 

Soluble in DMSO (10mM, gentle warming)

+4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

**Shipping Conditions** 

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** 

**Chemical structure** 

 $C_{22}H_{18}N_4O_2S_3\\$ 

Molecular Formula **CAS Number PubChem identifier** 

686770-61-6 2155128

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

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) **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