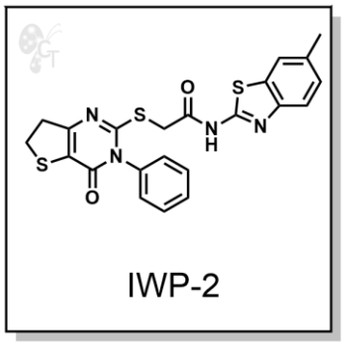
Product Specification Sheet

Product Name: IWP-2

Catalog Number: C4310



Technical information:

Chemical Formula: $C_{22}H_{18}N_4O_2S_3$
CAS #: 686770-61-6
Molecular Weight: 466.6
Purity: > 98%
Appearance: Off-white solid
Solubility: Soluble in DMSO up to 5 mM
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
Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.
Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:

- To make 10 mM stock solution, add 0.214mL of DMSO for each mg of IWP-2.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: IWP-2 is one of the original Inhibitors of Wnt production compounds that targets Porcupine (Porcn), an acyltransferase catalyzing the palmitoylation lipidation of Wnt proteins [1]. IWP2 specifically inhibits Porcn acyltransferase activity and consequently blocks Wnt protein secretion and does not block general protein secretion of cellular responses mediated by the Hh and Notch proteins [2].

Reference:

1. Chen B, et al. Small molecule–mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. Nat Chem Biol 2009; 5: 100–107. Pubmed ID: 19125156
2. Dodge ME, et al. Diverse Chemical Scaffolds Support Direct Inhibition of the Membrane-bound O-Acyltransferase Porcupine. J Biol Chem 2012; 287: 23246-23254 Pubmed ID: 22593577

To reorder: http://www.cellagentech.com/IWP-2/
For Technical Support: technical@cellagentech.com

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