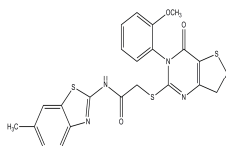


**Product: IWP-4****ALTERNATE NAME:** N-(6-methyl-2-benzothiazolyl)-2-[[3,4,6,7-tetrahydro-3-(2-methoxyphenyl)-4-oxothieno[3,2-d]pyrimidin-2-yl]thio]acetamide**CATALOG #:** 2650-1, 5**AMOUNT:** 1 mg, 5 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>23</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>S<sub>3</sub>**MOLECULAR WEIGHT:** 496.62**CAS NUMBER:** 686772-17-8**APPEARANCE:** Crystalline solid**SOLUBILITY:** DMSO (~2 mg/ml)**PURITY:** ≥95% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** IWP-4 is a potent inhibitor of Wnt production that blocks Wnt pathway activity *in vitro* (IC<sub>50</sub> = 25 nM). IWP-4 inactivates Porcupine (porcn), a membrane-bound O-acyltransferase responsible for palmitoylating Wnt proteins, which is essential for their signaling ability and secretion. At 5 μM, IWP-4 has been shown to block Wnt-dependent phosphorylation of the low-density lipoprotein receptor-related protein 6 receptor and the scaffold protein Dishevelled, preventing the accumulation of β-catenin. IWP-4 has been used to induce cardiomyocyte differentiation from human pluripotent stem cells.**REFERENCE:** Chen, B., *et al.* (2009). *Chem. Biol.* **5**, 100-107.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

CRT Inhibitor, iCRT5 (Cat. No. 1896-5, 25)

ICG-001 (Cat. No. 2275-5, 25)

IQ-1 (Cat. No. 1663-1)

IWP-3 (Cat. No. 2349-1, 5)

IWP-2 (Cat. No. 1962-5, 25)

JW55 (Cat. No. 2612-5, 25)

KY02111 (Cat. No. 2264-5, 25)

LGK974 (Cat. No. 2645-1,5)

QS-11 (Cat. No. 1680-5)

Wnt antagonist, C59 (Cat. No. 2063-1, 5)

Wnt-1 Antibody (Cat. No. 3571-100)

Wnt-1 Antibody (Cat. No. 5754-100)

Wnt-1, human recombinant (Cat. No. 4754-10, 5-0, 1000)

Wnt-2 Antibody (Cat. No. 3572R-100)

Wnt-4 Antibody (Cat. No. 3574R-100)

Wnt-6 Antibody (Cat. No. 3570-100)

XAV939 (Cat. No. 1727-1)

**FOR RESEARCH USE ONLY! Not to be used on humans.**