



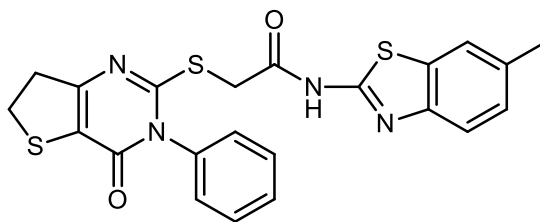
Catalog # 10-1308

IWP-2

CAS# 686770-61-6

N-(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-tetrahydro-4-oxo-3-phenylthieno[3,2-d]pyrimidin-2-yl)thio]-acetamide

Lot # X104212



IWP-2 is an inhibitor of Wnt secretion and processing. It blocks Wnt-dependent signaling ($IC_{50}=27nM$) by inhibition of the O-acyltransferase Porcn¹. Induces cardiomyocyte differentiation from human pluripotent stem cells². An important tool to probe the involvement of the Wnt pathway in physiological processes^{3,4}. Cell permeable.

- 1) Chen *et al.* (2009), *Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer*; Nature Chem. Biol., **5** 100
- 2) Lian *et al.* (2012), *Robust Cardiomyocyte differentiation from human pluripotent stem cells via temporal modulation of canonical Wnt signaling*; Proc. Natl. Acad. Sci. USA, **109** 1848
- 3) ten Berge *et al.* (2011), *Embryonic stem cells require Wnt proteins to prevent differentiation to epiblast stem cells*; Nature Cell. Biol., **13** 1070
- 4) Uyama *et al.* (2013), *Wnt2: a novel target of intermittent parathyroid hormone administration*; Int. J. Mol. Med., **31** 1243

PHYSICAL DATA

Molecular Weight:	466.61
Molecular Formula:	C ₂₂ H ₁₈ N ₄ O ₂ S ₃
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at desiccated -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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