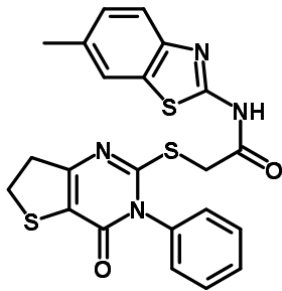


Product Specification Sheet

Product Name	Stemolecule™ Wnt Inhibitor IWP-2
Description	Stemolecule Wnt Inhibitor IWP-2 was identified in a high throughput screen for antagonists of the Wnt/ β -catenin pathway. Wnt Inhibitor IWP-2 prevents palmitoylation of Wnt proteins by Porcupine (Porcn), a membrane-bound O-acyltransferase, thereby blocking Wnt secretion and activity. It also blocks phosphorylation of the Lrp6 receptor and accumulation of both Dvl2 and β -catenin ¹ .
Catalog Number	AMS.04-0034
Size	2 mg
Alternate Name	N-(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-tetrahydro-4-oxo-3-phenylthieno[3,2-d]pyrimidin-2-yl)thio]-acetamide
Chemical Formula	C ₂₂ H ₁₈ N ₄ O ₂ S ₃
Structure	
Molecular Weight	466.6
CAS Number	686770-61-6
Purity	Greater than 99% by HPLC analysis
Formulation	White powder
Solubility	For a 5 mM concentrated stock solution of Wnt Inhibitor IWP-2, reconstitute the compound by adding 857.3 μ l of DMSO to the entire contents of the vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes. For cell culture, the media should be prewarmed prior to adding the reconstituted compound. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%. This molecule is soluble in DMSO at 5 mM.
Storage and Stability	Store powder at 4°C protected from light. Following reconstitution, store aliquots at -20°C. Stock solutions are stable for 6 months when stored as directed.
Quality Control	The purity of Wnt Inhibitor IWP-2 was determined by HPLC analysis. The accurate mass was determined by mass spectrometry. Cellular toxicity of Wnt Inhibitor IWP-2 was tested on mouse embryonic stem cells.
References	<ol style="list-style-type: none"> Chen, B., Dodge, M.E., Tang, W., Lu, J., Ma, Z., Fan, C.W., Wei, S., Hao, W., Kilgore, J., Williams, N.S., Roth, M.G., Amatruda, J.F., Chen, C., and Lum, L. (2009) Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. <i>Nat Chem Biol</i> 5: 100-107.

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