



IWP-4

Cat. No.:	OB0225WX-1700
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	IWP-4 is a specialized small molecule that functions as a high-potency inhibitor of Wnt protein production and secretion.
Synonym	Inhibitor of Wnt Production-4; 686772-17-8; IWP-4; 2-((3-(2-methoxyphenyl)-4-oxo-3,4,6,7-tetrahydrothieno[3,2-d]pyrimidin-2-yl)thio)-N-(6-methylbenzo[d]thiazol-2-yl)acetamide; Wnt inhibitor iwp-4; N-(6-Methyl-2-benzothiazolyl)-2-[(3,4,6,7-tetrahydro-3-(2-methoxyphenyl)-4-oxothieno[3,2-d]pyrimidin-2-yl)thio]-acetamide; 2-[[3-(2-methoxyphenyl)-4-oxo-3H,4H,6H,7H-thieno[3,2-d]pyrimidin-2-yl]sulfanyl]-N-(6-methyl-1,3-benzothiazol-2-yl)acetamide; N-(6-Methylbenzo[d]thiazol-2-yl)-2-(3-(2-methoxyphenyl)-4-oxo-3,4,6,7-tetrahydrothieno[3,2-d]pyrimidin-2-ylthio)acetamide; 2-[[3-(2-methoxyphenyl)-4-oxo-6,7-dihydrothieno[3,2-d]pyrimidin-2-yl]sulfanyl]-N-(6-methyl-1,3-benzothiazol-2-yl)acetamide
CAS No.	686772-17-8
Compound CID	2155264
Formula	C ₂₃ H ₂₀ N ₄ O ₃ S ₃
Formula Weight	496.62

Specification

Targets&IC50	Wnt: 25 nM.
Relative Density	1.51 g/cm ³



IUPAC Name	2-[[3-(2-Methoxyphenyl)-4-oxo-6,7-dihydrothieno[3,2-d]pyrimidin-2-yl]sulfanyl]-N-(6-methyl-1,3-benzothiazol-2-yl)acetamide
InChI	InChI=1S/C23H20N4O3S3/c1-13-7-8-14-18(11-13)33-22(24-14)26-19(28)12-32-23-25-15-9-10-31-20(15)21(29)27(23)16-5-3-4-6-17(16)30-2/h3-8,11H,9-10,12H2,1-2H3,(H,24,26,28)
InChI Key	RHUJMHQIBDFQR-UHFFFAOYSA-N
SMILES string	<chem>CC1=CC2=C(C=C1)N=C(S2)NC(=O)CSC3=NC4=C(C(=O)N3C5=CC=CC=C5OC)SCC4</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	IWP-4 is applied in stem cell research and developmental biology to study the inhibition of Porcupine-mediated Wnt palmitoylation and its role in controlling cell fate.

Library Information

Target	Wnt/ β -Catenin
Receptor	Wnt
Pathways	Cytoskeletal signaling; Stem cells
Plate Number	AOCL-22
Plate Location	g5
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	0.77 mg/mL; 1.54 mM