Data Sheet (Cat.No.T2683)

TargetMol

IWP L6

Chemical Properties

CAS No. :	1427782-89-5
Formula :	C25H20N4O2S2
Molecular Weight :	472.58
Appearance :	no data available
Storage :	Powder: -20°C for 3 years | In solvent: -80°C for 1 year
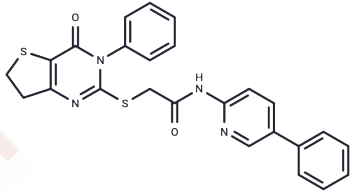
Biological Description

Description	IWP L6 (Porcn Inhibitor III) is a highly potent Porcn inhibitor with an EC50 of 0.5 nM.
Targets(IC50)	Porcupine
In vitro	In zebrafish embryos, IWP-L6 significantly inhibits the formation of posterior vertebrae, which is dependent on Wnt/β-catenin. IWP-L6 exhibits stability in human plasma (>24 hours) but shows rapid metabolism in rat plasma (half-life: 190 minutes), mouse plasma (half-life: 2 minutes), and mouse liver S9 fractions.
In vivo	In cultured embryonic kidneys, IWP-L6 can reversibly block the Wnt signaling pathway, thereby inhibiting Wnt-mediated branching morphogenesis. It also impedes the phosphorylation of Dvl2, a cytoplasmic effector of the Wnt pathway, in HEK293 cells.

Solubility Information

Solubility	DMSO: 4.73 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.116 mL	10.5802 mL	21.1604 mL
5 mM	0.4232 mL	2.116 mL	4.2321 mL
10 mM	0.2116 mL	1.058 mL	2.116 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wang X, et al. J Med Chem. 2013, 56(6), 2700-2704.