

IWP L6

Chemical Properties

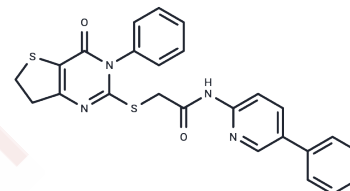
CAS No. : 1427782-89-5

Formula: C₂₅H₂₀N₄O₂S₂

Molecular Weight: 472.58

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	IWP L6 (Porcn Inhibitor III) is a highly potent Porcn inhibitor with an EC ₅₀ of 0.5 nM.
Targets(IC ₅₀)	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: 21.43 mg/mL (45.35 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.14 mg/mL (4.53 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481