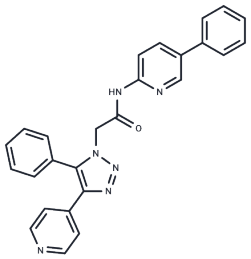
Data Sheet (Cat.No.T5342)

TargetMol

IWP-O1

Chemical Properties



CAS No. : 2074607-48-8

Formula: C26H20N6O

Molecular Weight: 432.48

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-O1, a highly potent Porcupine (Porcn) inhibitor (EC50: 80 pM), effectively suppresses the phosphorylation of Dvl2/3 and LRP6 in HeLa cells.
Targets(IC50)	Porcupine,Wnt/beta-catenin
In vitro	IWP-O1functions by preventing the secretion of Wnt proteins. IWP-O1 effectively suppressed the phosphorylation of Dvl2/3 in HeLa cells. At the same time, the phosphorylation of low-density lipoprotein receptor-related protein 6 (LRP6). IWP-O1 suppresses Wnt signaling in L-Wnt-STF cells with an EC50 value of 80 pM.

Solubility Information

Solubility	DMSO: 60 mg/mL (138.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.62 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3122 mL	11.5612 mL	23.1225 mL
5 mM	0.4624 mL	2.3122 mL	4.6245 mL
10 mM	0.2312 mL	1.1561 mL	2.3122 mL
50 mM	0.0462 mL	0.2312 mL	0.4624 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

You L, et al. Development of a triazole class of highly potent Porcn inhibitors. Bioorg Med Chem Lett. 2016 Dec 15; 26(24):5891-5895.