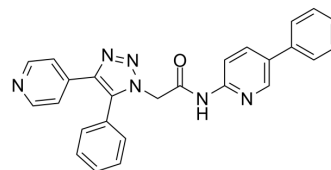


## IWP-O1

Cat. No.:	HY-100853
CAS No.:	2074607-48-8
Molecular Formula:	C <sub>26</sub> H <sub>20</sub> N <sub>6</sub> O
Molecular Weight:	432.48
Target:	Porcupine; Wnt
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (289.03 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	IWP-O1 is a highly potent Porcupine (Porcn) inhibitor, with an EC <sub>50</sub> of 80 pM in L-Wnt-STF cells. IWP-O1 prevents the secretion of Wnt proteins. IWP-O1 suppresses the phosphorylation of Dvl2/3 and LRP6 in HeLa cells <sup>[1]</sup> .
IC <sub>50</sub> & Target	EC <sub>50</sub> : 80 pM (Porcn) <sup>[1]</sup> .
In Vitro	IWP-O1 (17) suppresses Wnt signaling in L-Wnt-STF cells with an EC <sub>50</sub> value of 80 pM, 2.5 times more active than the investigational drug LGK974 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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