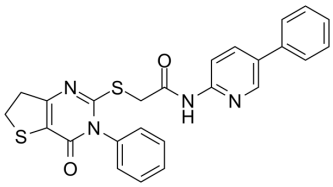
IWP L6

Cat. No.:	HY-15825
CAS No.:	1427782-89-5
Molecular Formula:	$C_{25}H_{20}N_4O_2S_2$
Molecular Weight:	472.58
Target:	Porcupine
Pathway:	Stem Cell/Wnt
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 22.5 mg/mL (47.61 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1160 mL	10.5802 mL	21.1604 mL
	5 mM	0.4232 mL	2.1160 mL	4.2321 mL
	10 mM	0.2116 mL	1.0580 mL	2.1160 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

IWP L6 (Porcn Inhibitor III) is a Porcn inhibitor with an EC_{50} of 0.5 nM.

IC_{50} & Target

EC50 Value: 0.5 nM[1]

In Vitro

IWP-L6 (Porcn Inhibitor III) effectively suppressed the phosphorylation of dishevelled 2 (Dvl2) in HEK293 cells, a biochemical event associated with many Wnt-dependent cellular responses. IWP-L6 inhibits Wnt mediated branching morphogenesis in cultured embryonic kidneys [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

IWP-L6 (Porcn Inhibitor III) is stable in human plasma over 24 h, it was rapidly metabolized in rat plasma (t1/2 = 190 min), murine plasma (t1/2 = 2 min), and the murine liver S9 fractions (t1/2 = 26 min). The major metabolites are the amide cleavage products. Similar species-dependent metabolitic profiles due to the involvement of carboxylesterase (CES) have been reported with other drug candidates. Despite its modest metabolic stability in mouse-derived plasma, IWP-L6 was highly active in zebrafish. IWP-L6 exhibited more potent activity[1].

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CUSTOMER VALIDATION

- SSRN. 2023 Jun 22.
- Patent. US20180263995A1.

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REFERENCES

[1]. Wang, X., et al., The development of highly potent inhibitors for porcupine. J Med Chem, 2013. 56(6): p. 2700-4.

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