

IWP L6

Catalog No: tcsc2095



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

1427782-89-5

Formula:

$C_{25}H_{20}N_4O_2S_2$

Pathway:

Stem Cell/Wnt

Target:

Porcupine

Purity / Grade:

>98%

Solubility:

DMSO : 1.43 mg/mL (3.03 mM; Need ultrasonic)

Alternative Names:

Porcn Inhibitor III

Observed Molecular Weight:

472.58

Product Description

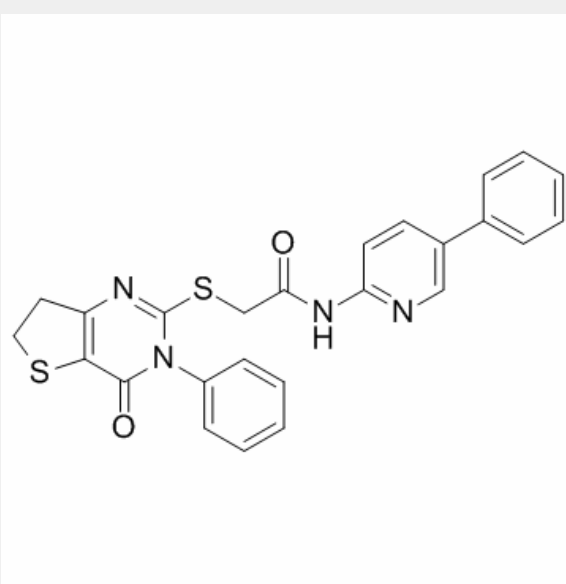
IWP L6 is a Porcn inhibitor with EC50 of 0.5 nM.

IC50 Value: 0.5 nM(EC50) [1]

Target: Porcupine

in vitro: IWP-L6 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].

in vivo: IWP-L6 is stable in human plasma over 24 h, it was rapidly metabolized in rat plasma ($t_{1/2}$ = 190 min), murine plasma ($t_{1/2}$ = 2 min), and the murine liver S9 fractions ($t_{1/2}$ = 26 min). The major metabolites are the amide cleavage products. Similar species-dependent metabolic 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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