

产品名称:

**2-((4-Oxo-3-phenyl-3,4,6,7-tetrahydrothieno[3,2-d]pyrimidin-2-yl)thio)-N-(5-phenylpyridin-2-yl)aceta**

产品别名: IWP L6

|                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |           |            |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------|------------|
| 生物活性:                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |           |            |
| Description                                                                                                                                 | IWP L6 (Porcn Inhibitor III) is a <b>Porcn</b> inhibitor with an <b>EC<sub>50</sub></b> of 0.5 nM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |           |            |
| IC <sub>50</sub> & 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].                                                                                                                                                                                                                                                                                |                                          |           |            |
| 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 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]. |                                          |           |            |
| Solvent&Solubility                                                                                                                          | <b>In Vitro:</b><br><b>DMSO : 1.43 mg/mL (3.03 mM; Need ultrasonic)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |           |            |
|                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <div>SolventMass<br/>Concentration</div> | 1 mg      | 5 mg       |
|                                                                                                                                             | Preparing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 mM                                     | 2.1160 mL | 10.5802 mL |
|                                                                                                                                             | Stock Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 mM                                     | ---       | ---        |
|                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 mM                                    | ---       | ---        |
| *请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。<br>储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |           |            |
| References                                                                                                                                  | [1]. Wang, X., et al., The development of highly potent inhibitors for porcupine. J Med Chem, 2013. 56(6): p. 2700-4.                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |           |            |