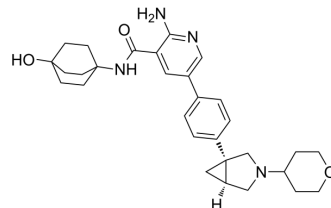


## Zilurgisertib

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-145608  |
| <b>CAS No.:</b>           | 2173389-57-4   |
| <b>Molecular Formula:</b> | C <sub>30</sub> H <sub>38</sub> N <sub>4</sub> O <sub>3</sub>  |
| <b>Molecular Weight:</b>  | 502.65   |
| <b>Target:</b>            | TGF-β Receptor   |
| <b>Pathway:</b>           | TGF-beta/Smad  |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

| <b>In Vitro</b>           | DMSO : 100 mg/mL (198.95 mM; Need ultrasonic)   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|---------------------------|---|-----------|-----------|---------------|--|--|------|------|-------|---------------------------|------|-----------|-----------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
|                           | <table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.9895 mL</td> <td>9.9473 mL</td> <td>19.8946 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3979 mL</td> <td>1.9895 mL</td> <td>3.9789 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1989 mL</td> <td>0.9947 mL</td> <td>1.9895 mL</td> </tr> </tbody> </table> | Solvent   | Mass      | Concentration |  |  | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 1.9895 mL | 9.9473 mL | 19.8946 mL | 5 mM | 0.3979 mL | 1.9895 mL | 3.9789 mL | 10 mM | 0.1989 mL | 0.9947 mL | 1.9895 mL |
| Solvent                   | Mass  |           |           | Concentration |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           |   | 1 mg      | 5 mg      | 10 mg         |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| Preparing Stock Solutions | 1 mM  | 1.9895 mL | 9.9473 mL | 19.8946 mL    |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 5 mM  | 0.3979 mL | 1.9895 mL | 3.9789 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 10 mM   | 0.1989 mL | 0.9947 mL | 1.9895 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | Please refer to the solubility information to select the appropriate solvent.   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| <b>In Vivo</b>            | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 2.5 mg/mL (4.97 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.5 mg/mL (4.97 mM); Clear solution</li> </ol>   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |

### BIOLOGICAL ACTIVITY

|                                     |  |
|-------------------------------------|--|
| <b>Description</b>                  | Zilurgisertib (INCB-000928; NBU-928) is a selective ALK 2 inhibitor for researching diseases such as cancer. |
| <b>IC<sub>50</sub> &amp; Target</b> | ALK2   |

### REFERENCES

[1]. Li J, et al. Preparation of aminopyridine derivatives and their use as selective ALK-2 inhibitors. WO2018014829 A1.

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

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