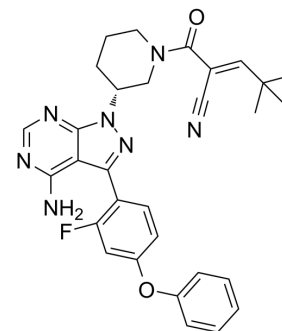


## Atuzabrutinib

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-132808  |
| <b>CAS No.:</b>           | 1581714-49-9   |
| <b>Molecular Formula:</b> | C <sub>30</sub> H <sub>30</sub> FN <sub>7</sub> O <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 539.6  |
| <b>Target:</b>            | Btk  |
| <b>Pathway:</b>           | Protein Tyrosine Kinase/RTK  |
| <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 (185.32 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>1.8532 mL</td> <td>9.2661 mL</td> <td>18.5322 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3706 mL</td> <td>1.8532 mL</td> <td>3.7064 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1853 mL</td> <td>0.9266 mL</td> <td>1.8532 mL</td> </tr> </tbody> </table> | Solvent   | Mass      | Concentration |  |  | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 1.8532 mL | 9.2661 mL | 18.5322 mL | 5 mM | 0.3706 mL | 1.8532 mL | 3.7064 mL | 10 mM | 0.1853 mL | 0.9266 mL | 1.8532 mL |
| Solvent                   | Mass  |           |           | Concentration |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           |   | 1 mg      | 5 mg      | 10 mg         |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| Preparing Stock Solutions | 1 mM  | 1.8532 mL | 9.2661 mL | 18.5322 mL    |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 5 mM  | 0.3706 mL | 1.8532 mL | 3.7064 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | 10 mM   | 0.1853 mL | 0.9266 mL | 1.8532 mL     |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
|                           | Please refer to the solubility information to select the appropriate solvent.   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |
| <b>In Vivo</b>            | 1. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (4.63 mM); Clear solution   |           |           |               |  |  |      |      |       |                           |      |           |           |            |      |           |           |           |       |           |           |           |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | Atuzabrutinib (SAR 444727) is a potent, selective reversible inhibitor of Btk (Bruton's tyrosine kinase) inhibitor. Atuzabrutinib inhibits neutrophil recruitment via inhibition of macrophage antigen-1 signalling <sup>[1]</sup> .  |
| <b>In Vivo</b>     | PRN473 (20 mg/kg) significantly reduces intravascular crawling and neutrophil recruitment into inflamed tissue in a model of sterile liver injury, down to levels seen in Btk-deficient animals <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

[1]. Herter JM, et al. PRN473, an inhibitor of Bruton's tyrosine kinase, inhibits neutrophil recruitment via inhibition of macrophage antigen-1 signalling. Br J Pharmacol. 2018;175(3):429-439.

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

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