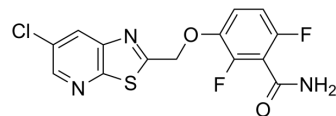


## PC190723

|                    |   |       |          |
|--------------------|---|-------|----------|
| Cat. No.:          | HY-146331   |       |          |
| CAS No.:           | 951120-33-5   |       |          |
| Molecular Formula: | C <sub>14</sub> H <sub>8</sub> ClF <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S |       |          |
| Molecular Weight:  | 355.75  |       |          |
| Target:            | Bacterial; Antibiotic   |       |          |
| Pathway:           | Anti-infection  |       |          |
| 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 : 200 mg/mL (562.19 mM; Need ultrasonic)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 2.8110 mL | 14.0548 mL | 28.1096 mL |
|                           | 5 mM    | 0.5622 mL | 2.8110 mL  | 5.6219 mL  |
|                           | 10 mM   | 0.2811 mL | 1.4055 mL  | 2.8110 mL  |

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 5 mg/mL (14.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 5 mg/mL (14.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 5 mg/mL (14.05 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

PC190723 (Compound 2) is an inhibitor of the bacterial cell division protein FtsZ with an IC<sub>50</sub> of 55 ng/ml. FtsZ-IN-3 exhibits anti-staphylococcal activity with MIC values of 1 µg/ml for MSSA and MRSA<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 55 ng/ml (FtsZ)<sup>[1]</sup>

### REFERENCES

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

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