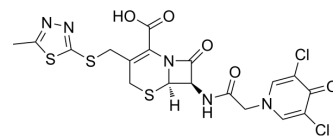


## Cefazedone

|                    |                                                                                              |       |         |
|--------------------|----------------------------------------------------------------------------------------------|-------|---------|
| Cat. No.:          | HY-121144                                                                                    |       |         |
| CAS No.:           | 56187-47-4                                                                                   |       |         |
| Molecular Formula: | C <sub>18</sub> H <sub>15</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>5</sub> S <sub>3</sub> |       |         |
| Molecular Weight:  | 548.44                                                                                       |       |         |
| Target:            | Bacterial; Antibiotic                                                                        |       |         |
| Pathway:           | Anti-infection                                                                               |       |         |
| Storage:           | Powder                                                                                       | -20°C | 3 years |
|                    |                                                                                              | 4°C   | 2 years |
|                    | In solvent                                                                                   | -80°C | 2 years |
|                    |                                                                                              | -20°C | 1 year  |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                                           |                          |           |            |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|------------|
| In Vitro                                                                      | DMSO : 125 mg/mL (227.92 mM; Need ultrasonic)                                                                                             |                          |           |            |
|                                                                               |                                                                                                                                           | Solvent<br>Concentration | Mass      |            |
|                                                                               |                                                                                                                                           |                          | 1 mg      | 5 mg       |
|                                                                               | Preparing Stock Solutions                                                                                                                 |                          | 10 mg     |            |
|                                                                               | 1 mM                                                                                                                                      | 1.8234 mL                | 9.1168 mL | 18.2335 mL |
|                                                                               | 5 mM                                                                                                                                      | 0.3647 mL                | 1.8234 mL | 3.6467 mL  |
|                                                                               | 10 mM                                                                                                                                     | 0.1823 mL                | 0.9117 mL | 1.8234 mL  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                                           |                          |           |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.08 mg/mL (3.79 mM); Clear solution |                          |           |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.08 mg/mL (3.79 mM); Clear solution            |                          |           |            |
|                                                                               | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.08 mg/mL (3.79 mM); Clear solution                            |                          |           |            |

### BIOLOGICAL ACTIVITY

|                           |                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | Cefazedone (Refosporen), a first-generation cephalosporin, is a time-dependent antibiotic with activity against Gram-positive and Gram-negative bacteria <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | β-lactam                                                                                                                                                                  |

### REFERENCES

---

[1]. Gao L, et al. A Pharmacokinetic and Pharmacodynamic Study on Intravenous Cefazedone Sodium in Patients with Community-acquired Pneumonia. Chin Med J (Engl). 2015 May 5;128(9):1160-4.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA