

## Cefiderocol

## Chemical Properties

CAS No. : 1225208-94-5

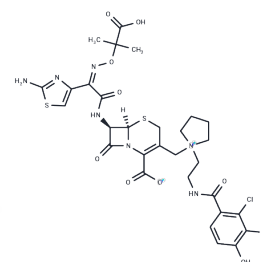
Formula: C<sub>30</sub>H<sub>34</sub>ClN<sub>7</sub>O<sub>10</sub>S<sub>2</sub>

Molecular Weight: 752.22

Storage: Store at low temperature, Keep away from moisture,  
The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |  |
|---------------|--|
| Description   | Cefiderocol (S-649266) is a novel iron-siderophore-cephalosporin conjugate with antibacterial activity, inhibiting aerobic Gram-negative bacteria, used in bacterial infection research. |
| Targets(IC50) | Antibacterial, Antibiotic  |
| In vitro      | Cefiderocol showed excellent antimicrobial activity against CRAB.  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 80 mg/mL (106.35 mM), Sonication is recommended. The compound is unstable in solution. Please use soon.<br>H <sub>2</sub> O: 1 mg/mL (1.33 mM), Sonication is recommended. The compound is unstable in solution. Please use soon.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (4.39 mM), Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 1.3294 mL  | 6.647 mL   | 13.294 mL   |
| 5 mM  | 0.2659 mL  | 1.3294 mL  | 2.6588 mL   |
| 10 mM | 0.1329 mL  | 0.6647 mL  | 1.3294 mL   |
| 50 mM | 0.0266 mL  | 0.1329 mL  | 0.2659 mL   |

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Karruli A, et al. Cefiderocol and Sulbactam-Durlobactam against Carbapenem-Resistant *Acinetobacter baumannii*. *Antibiotics (Basel)*. 2023 Dec 14;12(12):1729.

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