# Cephalosporin C zinc salt

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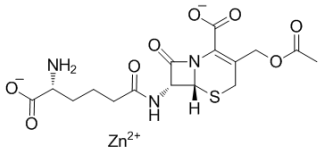
|---|---|---|---|
| **Cat. No.:** | HY-B1299A | | |
| **CAS No.:** | 59143-60-1 | | |
| **Molecular Formula:** | $C_{16}H_{19}N_3O_8SZn$ | | |
| **Molecular Weight:** | 478.78 | | |
| **Target:** | Others | | |
| **Pathway:** | Others | | |
| **Storage:** | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

**DMSO : 6 mg/mL** (**12.53 mM;** ultrasonic and warming and adjust pH to 2-3 with HCl)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| **1 mM** | 2.0886 mL | 10.4432 mL | 20.8864 mL |
| **5 mM** | 0.4177 mL | 2.0886 mL | 4.1773 mL |
| **10 mM** | 0.2089 mL | 1.0443 mL | 2.0886 mL |

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

## BIOLOGICAL ACTIVITY

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| **Description** | Cephalosporin C zinc salt is a potent inhibitor of **SAMHD1** with an **$IC_{50}$** of 1.1 μM. |
| **$IC_{50}$ & Target** | IC50: 1.1 μM (SAMHD1)[1] |
| **In Vitro** | Cephalosporin C zinc salt is a potent inhibitor of SAMHD1 with an $IC_{50}$ of 1.1 ± 0.1 μM, 200-fold more potent than $Na^+$ salt form of Cephalosporin C ($ICC_{50}^{CC\text{-}Na}$ = 213 ± 30 μM)[1]. |

## REFERENCES

[1]. Seamon KJ, et al. A High-Throughput Enzyme-Coupled Assay for SAMHD1 dNTPase. J Biomol Screen. 2015 Jul;20(6):801-9.

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

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