Cephalosporin C zinc salt

Cat. No.: HY-B1299A

CAS No.: 59143-60-1

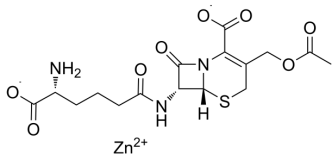
Molecular Formula: $C_{16}H_{19}N_3O_8SZn$

Molecular Weight: 478.78

Target: Bacterial; Antibiotic; Orthopoxvirus

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (10.44 mM; ultrasonic and adjust pH to 3 with 1M HCl)
H_2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	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

Description

Cephalosporin C zinc salt is a potent inhibitor of SAMHD1 with an IC_{50} of 1.1 μM[1]. Cephalosporin C zinc salt also has moderate anti-orthopoxvirus activity[2].

IC_{50} & Target

β-lactam

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].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Donald F Smee, et al. A review of compounds exhibiting anti-orthopoxvirus activity in animal models. Antiviral Res. 2003 Jan;57(1-2):41-52.

[2]. 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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