KPC-2-IN-2

Cat. No.: HY-150767

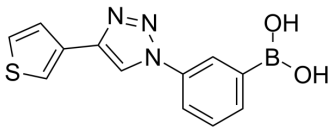
Molecular Formula: $C_{12}H_{10}BN_3O_2S$

Molecular Weight: 271.1

Target: Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KPC-2-IN-2 (Compound 6c) is a potent ***Klebsiella pneumoniae*** carbapenemase (KPC-2) inhibitor (K_i=0.038 μM). KPC-2-IN-2 can enhance the activity of cefotaxime in KPC-2 expressing Escherichia coli[1].
IC_{50} & Target	IC50: 0.038 μM (KPC-2)[1]
In Vitro	KPC-2-IN-2 (5 and 50 μg/mL; 24 h) treatment shows excellent tolerance in HEK-293[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay[1]

Cell Line:	HEK-293
Concentration:	5 and 50 μg/ml
Incubation Time:	24 hours
Result:	Tolerated well in the presence or absence of 30 μg/ml cefotaxime (>80% viability after 24 h).

REFERENCES

[1]. Jingyuan Zhou, et al. Triazole-substituted phenylboronic acids as tunable lead inhibitors of KPC-2 antibiotic resistance. Eur J Med Chem. 2022 Jun 28;240:114571.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

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