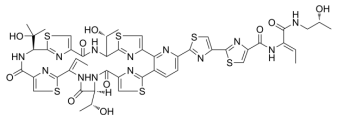
Thiocillin I

Cat. No.:	HY-125733
CAS No.:	59979-01-0
Molecular Formula:	$C_{48}H_{49}N_{13}O_{10}S_6$
Molecular Weight:	1160.37
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thiocillin I is a thiopeptide antibiotic and has in vitro antibacterial activity against Gram-positive bacterial strains. The MIC values of Thiocillin I against ***S. aureus*** 1974149, ***E. faecalis*** 1674621, ***B. subtilis*** ATCC 6633 and ***S. pyogenes*** 1744264 are 2 μg/mL, 0.5 μg/mL, 4 μg/mL and 0.5 μg/mL, respectively[1].
IC_{50} & Target	Bacterial[1]
In Vitro	Thiocillin I (2 μM; 24 hours; U-2OS C3 osteosarcoma cells) is not proteasome inhibitor, and does not stabilize expression of multiple cellular proteins and suppresses FoxM1 expression in U-2OS C3 osteosarcoma cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Akasapu S, et al. Total synthesis of micrococcin P1 and thiocillin I enabled by Mo(vi) catalyst. Chem Sci. 2018 Dec 3;10(7):1971-1975.

[2]. Pandit B, et al. Proteasome inhibitory activity of thiazole antibiotics. Cancer Biol Ther. 2011 Jan 1;11(1):43-7.

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