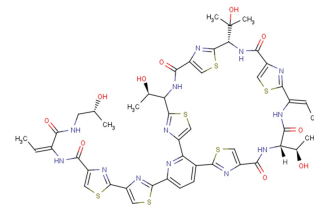


Thiocillin I

Chemical Properties

CAS No.:	59979-01-0
Formula:	C ₄₈ H ₄₉ N ₁₃ O ₁₀ S ₆
Molecular Weight:	1160.37
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Thiocillin I is a thiopeptide antibiotic and has in vitro antibacterial activity against Gram-positive bacterial strains (MIC of Thiocillin I against <i>S. aureus</i> 1974149, <i>E. faecalis</i> 1674621, <i>B. subtilis</i> ATCC 6633 and <i>S. pyogenes</i> 1744264 are 2 µg/mL, 0.5 µg/mL, 4 µg/mL and 0.5 µg/mL, respectively).
Targets(IC ₅₀)	Bacterial: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.862 mL	4.309 mL	8.618 mL
5 mM	0.172 mL	0.862 mL	1.724 mL
10 mM	0.086 mL	0.431 mL	0.862 mL
50 mM	0.017 mL	0.086 mL	0.172 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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