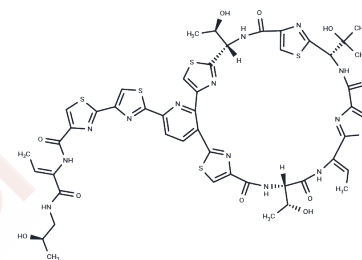


## Thiocillin I

## Chemical Properties

CAS No. :	59979-01-0
Formula:	C <sub>48</sub> H <sub>49</sub> N <sub>13</sub> O <sub>10</sub> S <sub>6</sub>
Molecular Weight:	1160.36
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Thiocillin I, a thiopeptide antibiotic, demonstrates potent in vitro antibacterial effects against Gram-positive bacteria. This compound exhibits minimum inhibitory concentrations (MICs) of 2 µg/mL, 0.5 µg/mL, 4 µg/mL, and 0.5 µg/mL against <i>S. aureus</i> 1974149, <i>E. faecalis</i> 1674621, <i>B. subtilis</i> ATCC 6633, and <i>S. pyogenes</i> 1744264, respectively.
Targets(IC50)	Antibacterial, Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8618 mL	4.309 mL	8.618 mL
5 mM	0.1724 mL	0.8618 mL	1.7236 mL
10 mM	0.0862 mL	0.4309 mL	0.8618 mL
50 mM	0.0172 mL	0.0862 mL	0.1724 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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

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