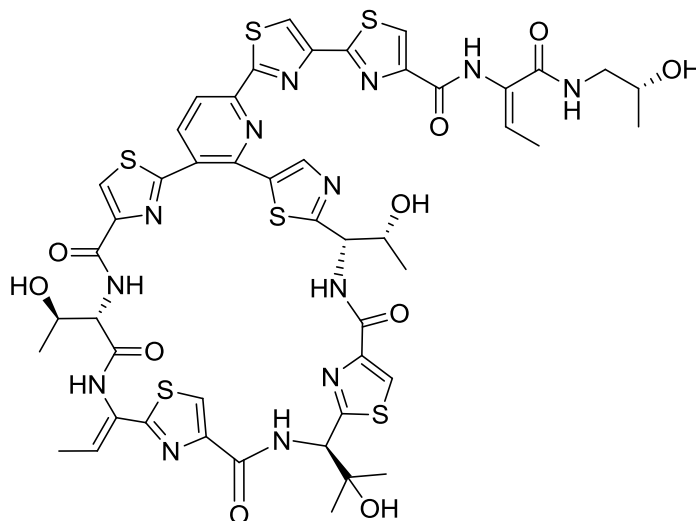


## Thiocillin I

Code No.: **BIA-T1529**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : 44-O-Demethylthiocillin II

## Specifications

CAS #	: 59979-01-0
Molecular Formula	: C <sub>48</sub> H <sub>49</sub> N <sub>13</sub> O <sub>10</sub> S <sub>6</sub>
Molecular Weight	: 1160.4
Source	: <i>Bacillus</i> sp.
Appearance	: White to light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

## Application Notes

Thiocillin I is the simplest of the macrocyclic thiazole peptides, first isolated from *Bacillus badius*. The final structural assignment and total synthesis of thiocillin I was only completed in 2011. Thiocillin I was originally reported as a potent antibacterial but its biological activity has not been extensively investigated.

## References

1. Isolation of three new antibiotics, thiocillin I, II and III, related to Micrococcin P. (Studies on antibiotics from the genus *Bacillus* VIII). Shoji J. et al. J. Antibiot. 1976, 29, 366.
2. Structural studies on thiocillins I, II and III (Studies on antibiotics from the genus *Bacillus* XXIX). Shoji J. et al. J. Antibiot. 1981, 34, 1126.
3. Total synthesis and complete structural assignment of Thiocillin I. Aulakh S. & Ciufolini M.A. J. Am. Chem. Soc. 2011, 133, 5900.

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