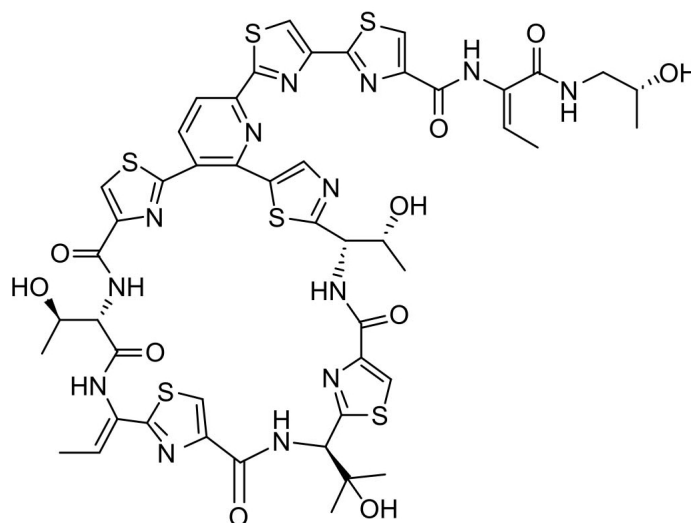


Thiocillin I



Synonyms:

44-O-Demethylthiocillin II

Specifications

CAS #	: 59979-01-0
Molecular Formula	: C48H49N13O10S6
Molecular Weight	: 1160.4
Source	: -
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 Micrococin 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.