

Product Name:	Thiocillin I
Product Number:	T090
CAS Number:	59979-01-0
Molecular Formula:	$C_{48}H_{49}N_{13}O_{10}S_6$
Molecular Weight:	1160.4
Appearance:	White to light tan solid
Storage Conditions:	-20°C
Description:	<p>Thiocillin I is the simplest of the macrocyclic thiazole peptides, first isolated from <i>Bacillus badius</i>. 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.</p> <p>Thiocillin I is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>Isolation of three new antibiotics, thiocillin I, II and III, related to Micrococcin P. (Studies on antibiotics from the genus <i>Bacillus</i> VIII). Shoji J. et al. J. Antibiot. 1976, 29, 366.</p> <p>Structural studies on thiocillins I, II and III (Studies on antibiotics from the genus <i>Bacillus</i> XXIX). Shoji J. et al. J. Antibiot. 1981, 34, 1126.</p> <p>Total synthesis and complete structural assignment of Thiocillin I. Aulakh S. & Ciufolini M.A. J. Am. Chem. Soc. 2011, 133, 5900.</p>