

Product Data Sheet

Product Name: Thiocillin I

Cat. No.: GC45038

Chemical Properties

Cas. No. 59979-01-0

SMILES O=C(C1=CSC(C2=CSC(C3=NC(C4=CSC([C@H]([C@H](O)C)NC(C5=CSC6=N5)=O)=N4)=C(C7=NC(C(N[C@]([C@H](O)C)([H])C(N/C(C8=NC(C(N[C@H]6C(C)(O)C)=O)=CS8)=C\C)=O)=O)=CS7)C=C3)=N2)=N1)N/C(C(NC[C@H](O)C)=O)=C\C

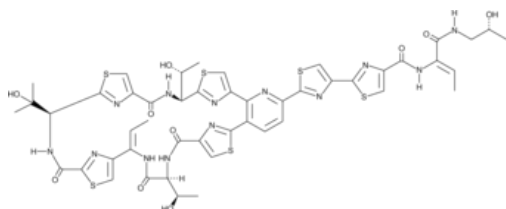
Formula C₄₈H₄₉N₁₃O₁₀S₆ M.Wt 1160.4

Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
Storage Store at -20°C, Protect from light.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Thiocillin I is an antibiotic originally isolated from *Bacillus* that has activity against Gram-positive, but not Gram-negative, bacteria. It inhibits the growth of *B. subtilis*, *B. anthracis*, *S. aureus*, *S. pyogenes*, and *S. pneumoniae* strains in vitro (MICs = 0.2-3.13 µg/ml). Thiocillin I exhibits antibiotic activity in a mouse model of *S. pyogenes* infection (ED₅₀ = 2.91 mg/kg).

Caution: Product has not been fully validated for medical applications. For research use only.

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