Product Name: Thiolutin
Catalog No.: 1567
Batch No.: 7
CAS Number: 87-11-6
IUPAC Name: N-(4,5-Dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: C₈H₈N₂O₂S₂
   - Batch Molecular Weight: 228.28
   - Physical Appearance: Yellow solid
   - Solubility: DMSO to 5 mg/ml
   - Storage: Desiccate at -20°C
   - Batch Molecular Structure:

2. ANALYTICAL DATA
   - Melting Point: Between 272 - 276°C
   - HPLC: Shows 98.9% purity
   - Mass Spectrum: Consistent with structure
Product Name: Thiolutin
CAS Number: 87-11-6
IUPAC Name: \( N-(4,5\text{-Dihydro-4-methyl-5-oxo-1,2-dithiolo}[4,3-b]pyrrol-6-yl)acetamide \)

Description:
Antibiotic; inhibits bacterial RNA polymerase. Inhibits adhesion of HUVEC cells to vitronectin (IC\(_{50}\) = 0.83 mM) and subsequently reduces paxillin levels. Suppresses tumor cell-induced angiogenesis.

Physical and Chemical Properties:
- Batch Molecular Formula: \( \text{C}_9\text{H}_8\text{N}_2\text{O}_2\text{S}_2 \)
- Batch Molecular Weight: 228.28
- Physical Appearance: Yellow solid
- Minimum Purity: >98%

Storage: Desiccate at -20°C

Solubility & Usage Info:
DMSO to 5 mg/ml
This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
- SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
- SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: