



Catalog # 10-2106

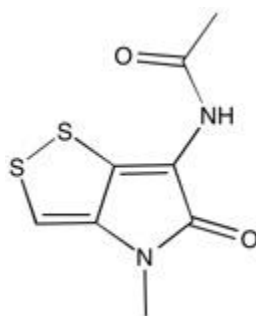
Thiolutin

CAS# 87-11-6

N-(4,5-Dihydro-4-methyl-5-oxo-1,2-dithiolo[4,3-b]pyrrol-6-yl)acetamide;

Acetopyrrothion

Lot # X104316



Inhibits the deubiquitinating (DUB) activity of PSMD14 exhibiting potent antitumor activity in neck squamous cell carcinoma *in vitro* and *in vivo*¹. Inhibits endothelial cell adhesion by perturbing HSP27 interactions with components of the actin and intermediate filament cytoskeleton². Potently inhibits developmental angiogenesis in zebrafish². Inhibits adhesion of endothelial cells to vitronectin (IC₅₀=0.83 μ M) inhibiting tumor cell-induced angiogenesis *in vivo*³. Cell permeable. Active *in vivo*.

- 1) Jing *et al.* (2021), *Blockade of deubiquitinating enzyme PSMD14 overcomes chemoresistance in head and neck squamous cell carcinoma by antagonizing E2F1/Akt/SOX2-mediated stemness*; *Theranostics*, **11** 2655
- 2) Jia *et al.* (2010), *Thiolutin inhibits endothelial cell adhesion by perturbing Hsp27 interactions with components of the active and intermediate filament cytoskeleton*; *Cell Stress Chaperones* **15** 165
- 3) Minamiguchi *et al.* (2001), *Thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECs and suppresses tumor cell-induced angiogenesis*; *Int. J. Cancer*, **93** 307

PHYSICAL DATA

Molecular Weight: 228.29
Molecular Formula: C₈H₈N₂O₂S₂
Purity: 98% by HPLC
NMR: (Conforms)
Solubility: DMSO (up to 15 mg/ml)
Physical Description: Yellow solid
Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase.
Solutions in DMSO may be stored at -20°C for up to 3 months.

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