

<b>Product Name:</b>	Thiolutin
<b>Product Number:</b>	T018
<b>CAS Number:</b>	87-11-6
<b>Molecular Formula:</b>	$C_8H_8N_2O_2S_2$
<b>Molecular Weight:</b>	228.3
<b>Appearance:</b>	Yellow orange solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Thiolutin is an antibiotic first described by Tanner and co-workers in 1950. Resurgent interest in this class of microbial metabolites was stimulated by the discovery of their selective antitumor activity. Thiolutin suppresses tumor cell-induced angiogenesis in vivo.</p> <p>Thiolutin is soluble in DMF and DMSO and is moderately soluble in methanol and ethanol.</p>
<b>Mechanism of Action:</b>	Thiolutin is a potent inhibitor of bacterial and yeast RNA polymerases, and also inhibits mannan and glucan formation in fungi.
<b>References:</b>	<p>Studies on a common hydrolysis product of thiolutin and aureothricin. Celmer W.D. and Solomons I.A. Antibiotics Annual 1953, 622.</p> <p>Anticancer property of dithiolopyrrolones. Webster J.M. et al. 2000, US Patent 6,020,360.</p> <p>Thiolutin inhibits yeast ribonucleic acid polymerases. Tipper D.J. J. Bacteriol. 1973, 116, 245.</p> <p>Thiolutin, an inhibitor of HUVEC adhesion to vitronectin, reduces paxillin in HUVECs and suppresses tumor cell-induced angiogenesis. Minamiguchi K. Int. J. Cancer 2001, 93, 307.</p> <p>Thiolutin, an inhibitor of macromolecular synthesis in <i>Saccharomyces cerevisiae</i>. Mode of action. Jimenez A. Antimicrob Agents Chemother. 1973, 3, 729.</p>