



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Thiolutin

RNA polymerase inhibitor  
Catalog No. SIH-375



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Thiolutin

### Description

RNA polymerase inhibitor

### Purity

>98% (TLC); NMR (Conforms)

### CAS No.

87-11-6

### Molecular Formula

CH<sub>11</sub>N<sub>1</sub>O<sub>1</sub>S<sub>1</sub>

### Molecular Weight

228.3

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

May be dissolved in DMSO (15 mg/ml)

### Source

Synthetic

### Appearance

Yellow powder

### SMILES

CC(=O)NC1=C2C(=CSS2)N(C1=O)C

### InChI

InChI=1S/C8H8N2O2S2/c1-4(11)9-6-7-5(3-13-14-7)10(2)8(6)12/h3H,1-2H3,(H,9,11)

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## InChIKey

MHMRAFONCSQAIA-UHFFFAOYSA-N

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## Safety Phrases

Classification: Danger.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H300 Fatal if swallowed

H330 Fatal if inhaled

Precautionary Phrases:

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P405 Store locked up

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## Cite This Product

Thiolutin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-375)

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## Biological Description

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### Alternative Names

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

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### Research Areas

Cell Signaling, Epigenetics

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### PubChem ID

6870

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### Scientific Background

Thiolutin is a sulfur antibiotic. Studies show the potential transcriptional inhibition on yeast degradation. By calculating the mRNA decay rates of transcription at different times after inhibition, it was evident that the effect of Thiolutin on the various degradation pathways of mRNA compromises the stability of the mRNA and the mechanism of gene expression (1). In pharmacology is known to inhibit endothelial cell adhesion by perturbing Hsp 27 interactions with components of the actin and intermediate filament cytoskeleton (2). Studies shown the inhibition of tumor cell-induced angiogenesis in vivo, adhesion of endothelial cells to vitronectin (IC<sub>50</sub>=0.83 μM) (3). Potentially inhibits developmental angiogenesis in zebrafish (2). Cell permeable. Active in vivo. Looking for more information on HSP27? Visit our new HSP27 Scientific Resource Guide at <http://www.HSP27.com>.

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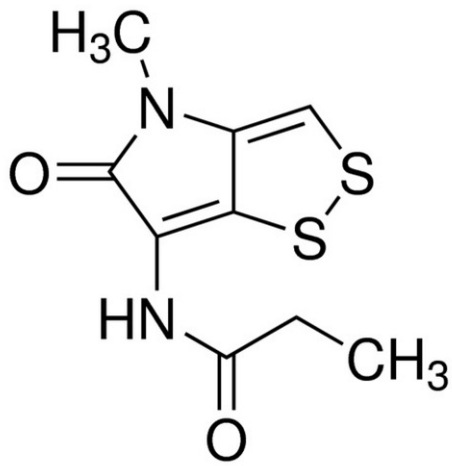
### References

1. Pelechano V. and Perez-Ortin J. (2008) *Yeast* 25: 85-92.
  2. Jia Y., et al. (2010) *Cell Stress Chaperones* 15: 165.
  3. Minamiguchi K., et al. (2001) *International J. Cancer*. 93: 307.
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## Product Images

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Chemical structure of Thiolutin (SIH-375), a HSP27 perturbing agent. CAS #: 87-11-6.  
Molecular Formula: C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>. Molecular Weight: 228.3 g/mol.



### Product Citations (0)

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Currently there are no citations for this product.

### Reviews

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There are no reviews yet.