

**Product Name:** 10058-F4

**Catalog No.:** 4406

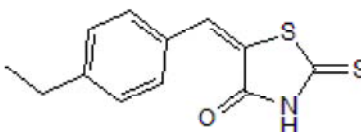
**Batch No.:** 1

CAS Number: 403811-55-2

IUPAC Name: 5-[(4-Ethylphenyl)methylene]-2-thioxo-4-thiazolidinone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>12</sub>H<sub>11</sub>NOS<sub>2</sub>  
**Batch Molecular Weight:** 249.35  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.8	4.45	5.62
Found	57.61	4.58	5.65

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

10058-F4 is a cell permeable c-Myc-Max dimerization inhibitor. Inhibits proliferation, induces apoptosis and arrests cells in G<sub>0</sub>/G<sub>1</sub> in rat1a-c-Myc cells. Also reduces tumor growth in vivo. In lymphoma cells, 10058-F4 decreases glucose uptake and expression of glycolysis-associated genes and reduces cell viability.

**Physical and Chemical Properties:**

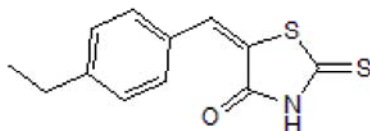
Batch Molecular Formula: C<sub>12</sub>H<sub>11</sub>NOS<sub>2</sub>

Batch Molecular Weight: 249.35

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM

**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:**

**Broecker-Preuss et al** (2017) Regulation of glucose uptake in lymphoma cell lines by c-MYC- and PI3K-dependent signaling pathways and impact of glycolytic pathways on cell viability *J.Transl.Med.* **15** 158. PMID: 28724379.

**Guo et al** (2009) Efficacy, pharmacokinetics, tissue distribution, and metabolism of the Myc-Max disruptor, 10058-F4 [Z,E]-5-[4-ethylbenzylidene]-2-thioxothiazolidin-4-one, in mice. *Cancer Chemother.Pharmacol.* **63** 615. PMID: 18509642.

**Huang et al** (2006) A small-molecule c-Myc inhibitor, 10058-F4, induces cell-cycle arrest, apoptosis, and myeloid differentiation of human acute myeloid leukemia. *Exp.Hematol.* **34** 1480. PMID: 17046567.

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