

Product Name: 10058-F4

Catalog No.: 4406

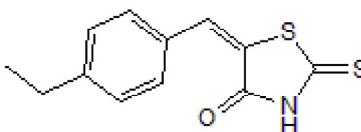
Batch No.: 1

CAS Number: 403811-55-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₁NOS₂
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
¹H 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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IUPAC Name: 5-[(4-Ethylphenyl)methylene]-2-thioxo-4-thiazolidinone

Description:

10058-F4 is a cell permeable c-Myc-Max dimerization inhibitor. Inhibits proliferation, induces apoptosis and arrests cells in G₀/G₁ 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:

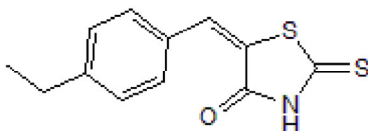
Batch Molecular Formula: C₁₂H₁₁NOS₂

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956