



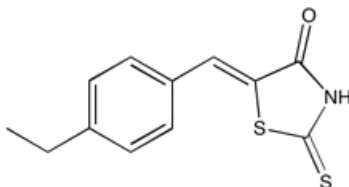
Catalog # 10-1466

10058-F4

CAS# 403811-55-2

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

Lot # S101103



Effectively disables c-Myc by inhibiting the c-Myc-Max association and function¹. It prevents the growth of fibroblasts in a c-Myc-dependent manner. Downregulates human telomerase reverse transcriptase and enhances chemosensitivity in human hepatocellular carcinoma cells². Induces cell cycle arrest, apoptosis and myeloid differentiation in human acute myeloid leukemia³. Inhibits the MYCN/Max interaction leading to cell cycle arrest, apoptosis and neuronal differentiation in MYCN-amplified neuroblastoma cells⁴.

- 1) Yin *et al.* (2003), *Low molecular weight inhibitors of Myc-Max interaction and function*; *Oncogene*, **22** 6151
- 2) Lin *et al.* (2007), *Small-molecule c-Myc inhibitor, 10058-F4, inhibits proliferation, downregulates human telomerase reverse transcriptase and enhances chemosensitivity in human hepatocellular carcinoma cells*; *Anti-Cancer Drugs*, **18** 161
- 3) 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
- 4) Zirath *et al.* (2013), *MYC inhibition induces metabolic changes leading to accumulation of lipid droplets in tumor cells*; *Proc. Natl. Acad. Sci. USA*, **110** 10258

PHYSICAL DATA

Molecular Weight:	249.36
Molecular Formula:	C ₁₂ H ₁₁ NOS ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 60 mg/ml) or Ethanol (up to 20 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com