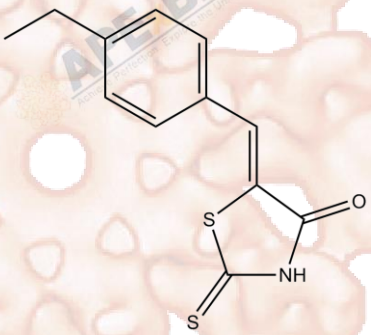
Product Data Sheet

10058-F4



Cat. No.:	A1169
CAS No.:	403811-55-2
Formula:	C12H11NOS2
M.Wt:	249.35
Synonyms:	
Target:	Cell Cycle/Checkpoint
Pathway:	c-Myc
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾24.9 mg/mL in DMSO; insoluble in H2O; ⩾2.64 mg/mL in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	4.0104 mL	20.0521 mL	40.1043 mL
5 mM	0.8021 mL	4.0104 mL	8.0209 mL
10 mM	0.4010 mL	2.0052 mL	4.0104 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	C-Myc-Max dimerization inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	HL-60, U937 and NB-4 cells
Preparation method:	The solubility of this compound in DMSO is > 12.5 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
Reacting conditions:	0, 30, 60, 100 and 150 μM; 72 hrs

	Applications:	All AML cell lines (HL-60, U937 and NB-4) were sensitive to 10058-F4 in a dose-dependent manner. At the dose of 100 μM, 10058-F4 significantly induced apoptosis of AML cell after the 72-hr treatment. In addition, 10058-F4 decreased levels of c-Myc proteins in all AML cell lines.
In Vivo	**Animal experiment**	
	Animal models:	SCID mice bearing DU145 or PC-3 human prostate cancer xenografts
	Dosage form:	20 or 30 mg/kg; i.v.; q.d., 5 days per week, for 2 weeks
	Applications:	In mice bearing PC-3 xenografts, intravenous treatment with 20 or 30 mg/kg 10058-F4 resulted in the maximum mean %TC values of 72.3 and 72.9%, respectively. Similarly, in mice bearing DU145 xenografts, 30 mg/kg 10058-F4 resulted in a maximum mean %TC value of 85%. 10058-F4 showed lack of effect in both models.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Huang MJ, Cheng YC, Liu CR, Lin SF, Liu H. E. A small-molecule c-Myc inhibitor, 10058-F4, induces cell-cycle arrest, apoptosis, and myeloid differentiation of human acute myeloid leukemia. Experimental Hematology. 2006; 34: 1480–1489.

[2]. Guo J, Parise RA, Joseph E, Egorin MJ, Lazo JS, Prochownik EV, Eiseman JL. Efficacy, pharmacokinetics, tisssue distribution, and metabolism of the Myc-Max disruptor, 10058-F4 [Z,E]-5-[4-ethylbenzylidine]-2-thioxothiazolidin-4-one, in mice. Cancer Chemother Pharmacol. 2009 Mar;63(4):615-25.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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