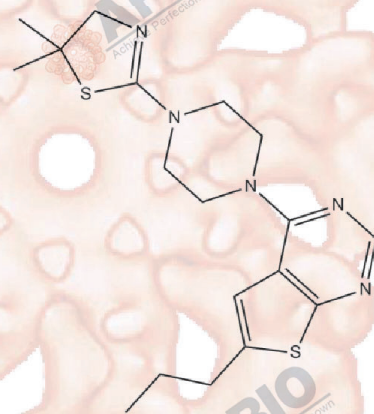


Product Data Sheet

MI-2

Cat. No.:	A3602
CAS No.:	1271738-62-5
Formula:	C ₁₈ H ₂₅ N ₅ S ₂
M.Wt:	375.55
Synonyms:	Menin-MLL inhibitor 2;Thieno[2,3-d]pyrimidine, 4-[4-(4,5-dihydro-5,5-dimethyl-2-thiazolyl)-1-pi peraziny]-6-propyl-
Target:	Others
Pathway:	Menin-MLL
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥15.1 mg/mL in DMSO; ≥46.4 mg/mL in EtOH with gentle warming

In Vitro

Preparing
Stock Solutions

Solvent Concentration	Mass	1mg	5mg	10mg
1 mM		2.6628 mL	13.3138 mL	26.6276 mL
5 mM		0.5326 mL	2.6628 mL	5.3255 mL
10 mM		0.2663 mL	1.3314 mL	2.6628 mL

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

Biological Activity

Shortsummary

Menin-MLL Inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	MLL-AF9 and MLL-ENL transduced murine BMCs
Preparation method:	The solubility of this compound in DMSO is > 15.1 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:	3 ~ 25 μ M
	Applications:	In MLL-AF9 and MLL-ENL transduced murine BMCs, MI-2 inhibited the proliferation of BMCs with a GI50 value of about 5 μ M. Moreover, MI-2 reduced colony formation in BMCs transduced with MLL-AF9. In a series of human MLL leukemia cell lines with different MLL translocations, MI-2 significantly inhibited cell proliferation and induced cell apoptosis.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Grembecka J, He S, Shi A, et al. Menin-MLL inhibitors reverse oncogenic activity of MLL fusion proteins in leukemia. Nat Chem Biol, 2012, 8(3): 277-284.

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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