MI-2-2

Cat. No.: CAS No.: Molecular Formula: Molecular Weight:	HY-108350 1454920-20-7 C ₁₇ H ₂₀ F ₃ N₅S ₂ 415.5	
Target: Pathway:	Epigenetic Reader Domain Epigenetics	
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	S N

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	Solvent Concentration Preparing 1 mM Stock Solutions 5 mM		1 mg	5 mg	10 mg	
		1 mM	2.4067 mL	12.0337 mL	24.0674 mL	
		5 mM	0.4813 mL	2.4067 mL	4.8135 mL	
		10 mM	0.2407 mL	1.2034 mL	2.4067 mL	
Plea	ise refer to the sol	ubility information to select the ap	propriate solvent.			
Vivo 1. A	1. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 3.75 mg/mL (9.03 mM); Clear solution					

BIOLOGICAL ACTIVITY			
Description	MI-2-2 is a potent menin-MLL inhibitor. MI-2-2 binds to menin with low nanomolar affinity (K _d =22nM) and very effectively disrupts the bivalent protein-protein interaction between menin and MLL. MI-2-2 has specific and very pronounced activity in MLL leukemia cells, including inhibition of cell proliferation, down-regulation of Hoxa9 expression, and differentiation ^[1] .		
In Vitro	MI-2-2 is capable of inhibiting both the interaction of menin with MBM1 (IC ₅₀ = 46 nM) and with the bivalent fragment of MLL that comprises both MBM1 and MBM2 (IC ₅₀ =520 nM). MI-2-2 exhibits very pronounced activities at low micromolar concentrations in BMCs transformed with MLL-AF9 and in MV4;11, a human leukemia cell line harboring the MLL-AF4 translocation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

Product Data Sheet

[1]. Shi A, et al. Structural insights into inhibition of the bivalent menin-MLL interaction by small molecules in leukemia. Blood. 2012;120(23):4461-4469.

Caution: Product has not been fully validated for medical applications. For research use only.

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