

MI-2-2

## Chemical Properties

CAS No. : 1454920-20-7

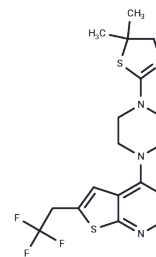
Formula: C<sub>17</sub>H<sub>20</sub>F<sub>3</sub>N<sub>5</sub>S<sub>2</sub>

Molecular Weight: 415.5

Storage: Keep away from direct sunlight, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MI-2-2 is an inhibitor of bivalent protein-protein interaction between menin and MLL with an IC <sub>50</sub> of 46 nM. MI-2-2 binds to menin with K <sub>d</sub> of 22 nM.
Targets(IC <sub>50</sub> )	Epigenetic Reader Domain, Histone Methyltransferase
In vitro	MI-2-2 inhibits the bivalent fragment of MLL, consisting of MBM1 and MBM2, with an IC <sub>50</sub> of 520 nM. It effectively suppresses cell proliferation, differentiation, and Hoxa9 expression. Additionally, MI-2-2 shows significant activity at low micromolar concentrations in BMCs transformed with MLL-AF9 and in MV4[1].

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0481 mL	0.2407 mL	0.4813 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Ren J, et al. Design and synthesis of benzylpiperidine inhibitors targeting the menin-MLL1 interface. Bioorg Med Chem Lett. 2016 Sep 15;26(18):4472-6.

Vedadi M, et al. Targeting human SET1/MLL family of proteins. Protein Sci. 2017 Apr;26(4):662-676.

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