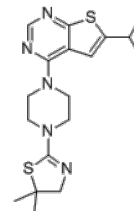


**Product Name** : MI-3  
**Cat. No.** : PC-38602  
**CAS No.** : 1271738-59-0  
**Molecular Formula** : C<sub>18</sub>H<sub>25</sub>N<sub>5</sub>S<sub>2</sub>  
**Molecular Weight** : 375.553  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MI-3 is a potent inhibitor of the interaction between menin-MLL with IC<sub>50</sub> of 648 nM, binds to menin (K<sub>d</sub> = 201 nM) and inhibits the menin-MLL-AF9 interaction in HEK293 cells without affecting protein levels of menin or MLL-AF9.

MI-3 inhibits growth of mouse bone marrow cells (BMCs) expressing the Hoxa9 transformation-dependent MLL fusion proteins MLL-AF9 or MLL-ENL with IC<sub>50</sub> of 5 μM for both.

MI-3 inhibits growth of human leukemia cell lines containing MLL translocations and decreases the expression of the transcription factors HOXA9, HOXA10, and MEIS1 in THP-1 cells.

## References

Jolanta Grembecka, et al. Nat Chem Biol. 2012 Jan 29;8(3):277-84.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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