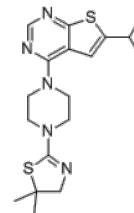


Product Name : MI-3
Cat. No. : PC-38602
CAS No. : 1271738-59-0
Molecular Formula : C₁₈H₂₅N₅S₂
Molecular Weight : 375.553
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

MI-3 is a potent inhibitor of the interaction between **menin-MLL** with IC₅₀ of 648 nM, binds to menin (K_d = 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 IC₅₀ of 5 uM 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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