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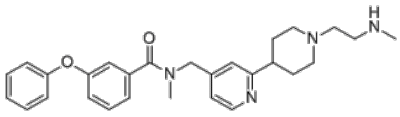
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TP-064
Cat. No.	:	PC-63546
CAS No.	:	2080306-20-1
Molecular Formula	:	$C_{28}H_{34}N_4O_2$
Molecular Weight	:	458.606
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	250 mM in DMSO (114.65 mg/mL)



Biological Activity

TP-064 is a potent, selective, and cell-active inhibitor of **PRMT4** with IC50 of <10 nM and Kd of 7.1 nM.
TP-064 shows high selectivity (>100-fold) for PRMT4 over other PRMTs.
TP-064 reduces dimethylation of BAF155 (IC50=340±30 nM) and MED12 (IC50=43±10 nM) in a dose-dependent manner in cell-baed assays.
TP-064 inhibits the proliferation of a subset of multiple myeloma cell lines (NCI-H929, RPMI8226, Cell IC50 of 379 and 886 nM, respectively) with affected cells arrested in G1 phase of the cell cycle, but has no effect on acute myeloid leukemia, colon cancer, or lung cancer cell lines.

References

Nakayama K, et al. ***Oncotarget.*** 2018 Apr 6;9(26):18480-18493.

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