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Data Sheet

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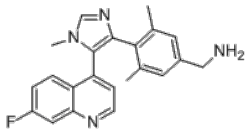
Product Name	:	BI-9321
Cat. No.	:	PC-72293
CAS No.	:	2387510-86-1
Molecular Formula	:	$C_{22}H_{21}FN_4$
Molecular Weight	:	360.436
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO



Biological Activity

BI-9321 (BI 9321) is a potent, selective and cellular active inhibitor of the **NSD3-PWWP1** domain with SPR Kd of 166 nM.
BI-9321 displays no significant inhibition against a selection of 31 diverse kinases, closest family members NSD2-PWWP1, BRD4 and KDM1B.
BI-9321 targets the methyl-lysine binding site of the PWWP1 domain with sub-micromolar in vitro activity and cellular target engagement at 1 uM.
BI-9321 downregulated Myc messenger RNA expression and reduces proliferation in MOLM-13 cells, BI-9321 inhibited proliferation of both MOLM-13 (IC50=26.8 uM) and RN2 cells (IC50=13 uM).
BI-9321 enhanced the JQ1-dependent proliferation phenotype in the MOLM-13 cell line.

References

Böttcher J, et al. ***Nat Chem Biol***. 2019 Aug;15(8):822-829.

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