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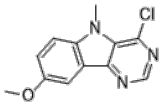
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	PRMT9 inhibitor LD2
Cat. No.	:	PC-22354
CAS No.	:	1134334-55-6
Molecular Formula	:	$C_{12}H_{10}ClN_3O$
Molecular Weight	:	247.68
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO



CAS: 1134334-55-6

Biological Activity

PRMT9 inhibitor LD2 is a specific small molecule PRMT9 inhibitor, inhibits PABPC1 R493 methylation level with IC50 of 0.9 uM in in Molm13s, sparing other PRMTs.
LD2 binds PRMT9 (−7.15 kcal mol−1) with greater affinity than the other PRMTs tested.
LD2 treatment preferentially inhibited the viability of cancer cells and their protein synthesis.
LD2 treatment (2.5 uM) expanded the number of IFN-γ-expressing T cells relative to vehicle controls in AML mononuclear cells (MNCs), without effect on T cell viability.
LD2 synergizes with anti-programmed cell death protein 1 in eradicating AML.

References

Dong H, et al. Nat Cancer. 2024 Apr;5(4):601-624.

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

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