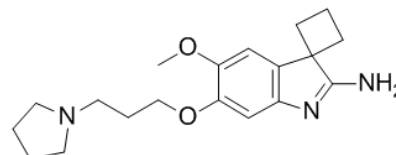


Product Name : A-366
Cat. No. : PC-43110
CAS No. : 1527503-11-2
Molecular Formula : C₁₉H₂₇N₃O₂
Molecular Weight : 329.4366
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

A-366 is a potent, highly selective inhibitor of histone methyltransferase **G9a/GLP** with IC₅₀ of 3/38 nM, >1,000-fold selectivity for G9a over 21 other methyltransferases.

A-366 effects a clear reduction in H3K9 methylation in cells, shows significantly less cytotoxic effects on the growth of tumor cell lines compared to other known G9a/GLP small molecule inhibitors despite equivalent cellular activity on methylation of H3K9me2 (H3K9me2 cellular EC₅₀=0.3 uM).

A-366 induces differentiation and affects viability in MV4;11 cells, demonstrates growth inhibition in vivo consistent with the profile of H3K9me2 reduction in flank xenograft leukemia model.

References

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Pappano WN, et al. *PLoS One.* 2015 Jul 6;10(7):e0131716.

Agarwal P, et al. *Cancer Lett.* 2016 Oct 1;380(2):467-75.

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

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