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# Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

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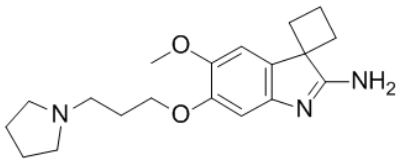
|---|---|---|
| **Product Name** | : | A-366 |
| **Cat. No.** | : | PC-43110 |
| **CAS No.** | : | 1527503-11-2 |
| **Molecular Formula** | : | $C_{19}H_{27}N_3O_2$ |
| **Molecular Weight** | : | 329.4366 |
| **Target** | : | Histone Methyltransferase (HMTase) |
| **Solubility** | : | 10 mM in DMSO |




## 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

Sweis RF, et al. ***ACS Med Chem Lett.*** 2014 Jan 2;5(2):205-9.

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.



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