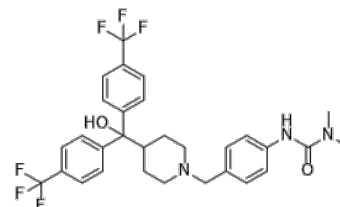


**Product Name** : DCG066  
**Cat. No.** : PC-25913  
**CAS No.** : 494786-13-9  
**Molecular Formula** : C<sub>30</sub>H<sub>31</sub>F<sub>6</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 579.59  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



CAS: 494786-13-9

## Biological Activity

DCG066 is a novel small molecule inhibitors of lysine methyltransferase G9a, inhibits G9a methyltransferase activity with IC<sub>50</sub> of 6.5  $\mu$ M.

DCG066 inhibits cancer cell proliferation, decreases histone H3 lysine 9 (H3K9) di-methyl levels, blocks cell cycle and induces apoptosis. DCG066 (1-2  $\mu$ M) decreased H3K9-dimethylation in K562 cells, but displayed no changes in H3K27 tri-methylation.

DCG066 can bind to G9a with low dissociation constant ( $K_d$  = 18  $\mu$ M) as measured by SPR.

## References

Kondengaden SM, et al. Eur J Med Chem. 2016 Oct 21;122:382-393.

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

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