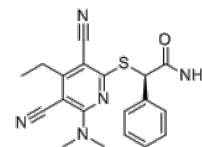


**Product Name** : GSK3484862  
**Cat. No.** : PC-72245  
**CAS No.** : 2170136-65-7  
**Molecular Formula** : C<sub>19</sub>H<sub>19</sub>N<sub>5</sub>OS  
**Molecular Weight** : 365.455  
**Target** : DNA Methyltransferase (DNMT)  
**Solubility** : 10 mM in DMSO



### Biological Activity

GSK3484862 (GSK-3484862) is a selective, non-covalent inhibitor of **DNMT1**, potently inhibits DNMT1 enzymatic activity with IC<sub>50</sub> of 0.23 μM.

GSK3484862 showed no inhibition of the family members DNMT3A/3L and DNMT3B/3L, or the assay coupling enzyme Glα1 at 50 μM.

GSK3484862 is chemically stable, did not bind DNA nonspecifically, and resulted in rapidly reversible inhibition of DNMT1. GSK-3484862 mediates striking demethylation in murine embryonic stem cells (mESCs) with minimal non-specific toxicity. Cellular engagement of DNMT1 by GSK3484862 resulted in a dose-dependent loss of promoter DNA methylation and marked transcriptional up-regulation of vimentin in HCT-116 cells.

GSK3484862 reprogrammed mouse embryonic fibroblast C3H/10T1/2 cells into functional muscle or fat cells by expression of the Myod1 or Adipoq differentiation marker genes.

### References

Nathalia Azevedo Portilho, et al. *Epigenetics Chromatin*. 2021 Dec 15;14(1):56.

Melissa B Pappalardi, et al. *Nat Cancer*. 2021 Oct;2(10):1002-1017.

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

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