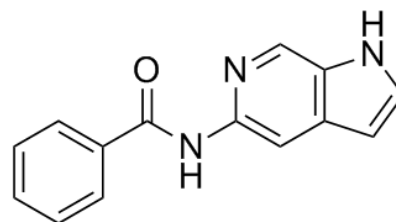


**Product Name** : OAC1  
**Cat. No.** : PC-42966  
**CAS No.** : 300586-90-7  
**Molecular Formula** : C<sub>14</sub>H<sub>11</sub>N<sub>3</sub>O  
**Molecular Weight** : 237.2566  
**Target** : Oct3/4  
**Solubility** : DMSO: ≥ 40 mg/mL



### Biological Activity

Oct4-activating compound 1 (OAC1) is a small molecule **Oct4**-activating compound, enhances the iPSC reprogramming efficiency and accelerates the reprogramming process.

OAC1 activates Oct4 and Nanog promoter-driven reporters in triplicate luciferase reporter assays, activates endogenous Oct4, Nanog, Sox2, and Tet1 expression.

OAC1 enhances reprogramming about fourfold at day 8 at 1 uM in iSF1 for the generation of mouse iPSCs.

### References

Li W, et al. *Proc Natl Acad Sci U S A*. 2012 Dec 18;109(51):20853-8.

Huang X, et al. *Leukemia*. 2016 Jan;30(1):144-53.

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

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