

Supporting information

Ethyl 2-((4-chlorophenyl)amino)thiazole-4-carboxylate and derivatives are potent inducers of Oct3/4

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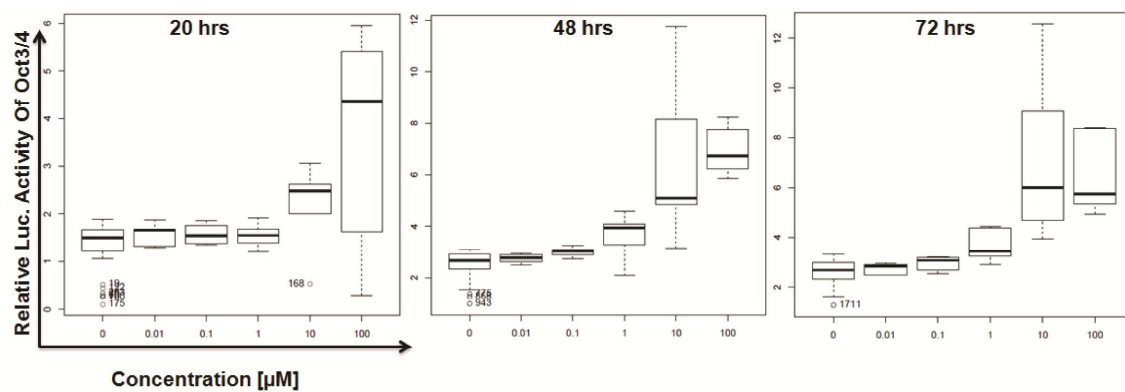
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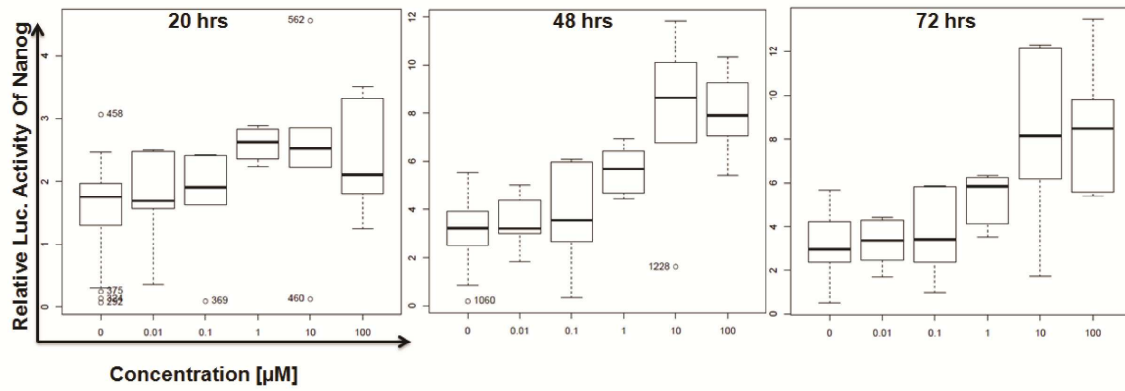
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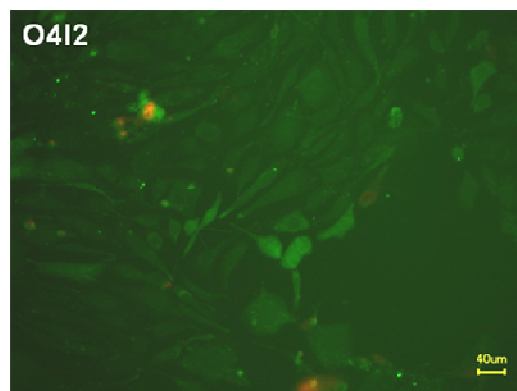
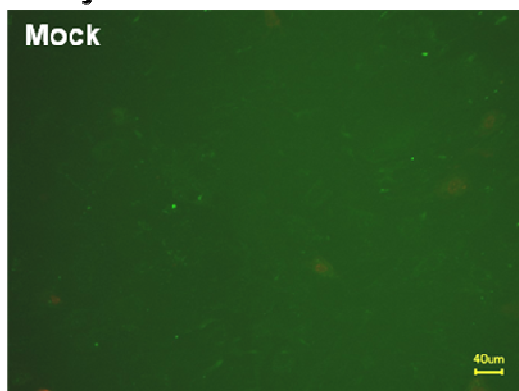


SI. 1: Activation of Oct3/4 in NCCIT-Oct3/4 treated with O4I2. The results at three time points were selected and analyzed.

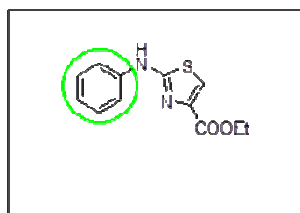


SI. 2: Activation of Nanog in NCCIT-Nanog cells treated with O4I2. The results at three time points were selected and analyzed.

5 Days ALP/PI

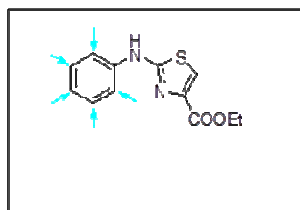


SI. 3: Alkaline phosphatase staining. The HF cells were treated with O4I2 (20 μ M) for 5 days in hESC medium. DMSO (0.2%) was used as mock. PI was used to detect dead cells.



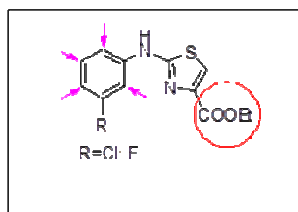
Phenyl-ring is important?

Yes



The size and position will influence?

Yes



Conversion to acids is helpful?

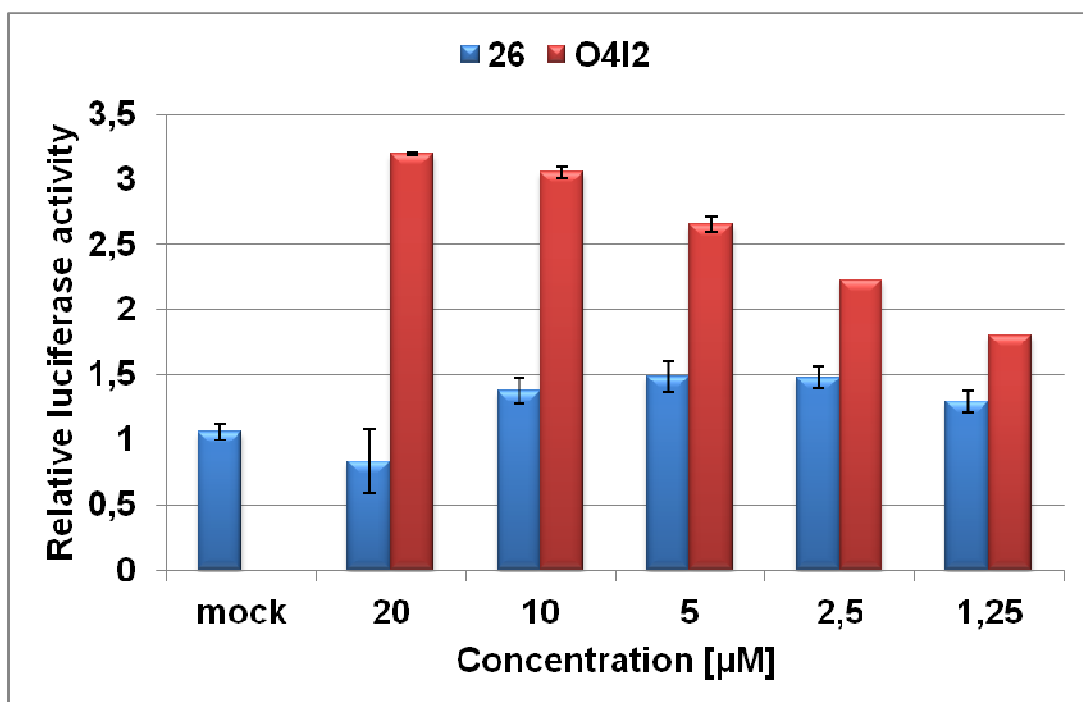
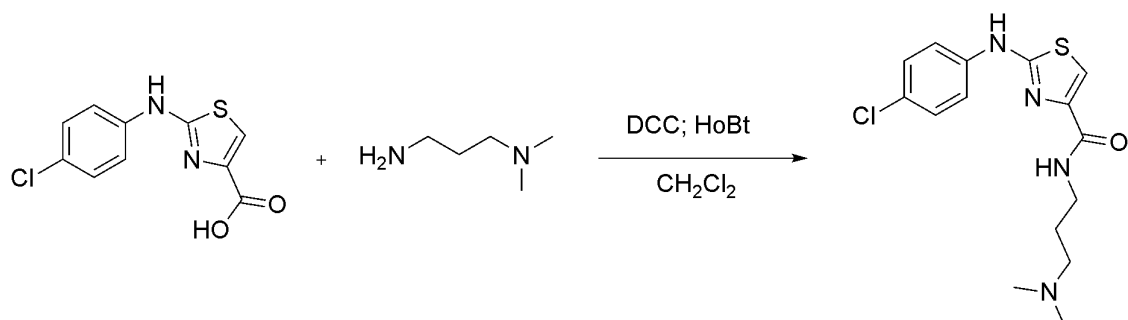
No

An additional substituents is useful?

No

SI 4: Structure optimization

SI 5



SI. 5: Synthesis of compound (26) and its activity in HEK-Oct3/4 in luciferase assay.