

# Supporting information

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

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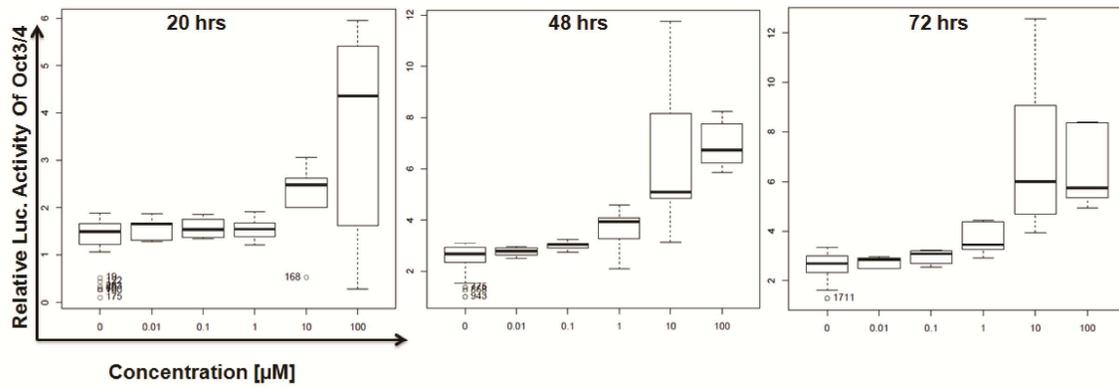
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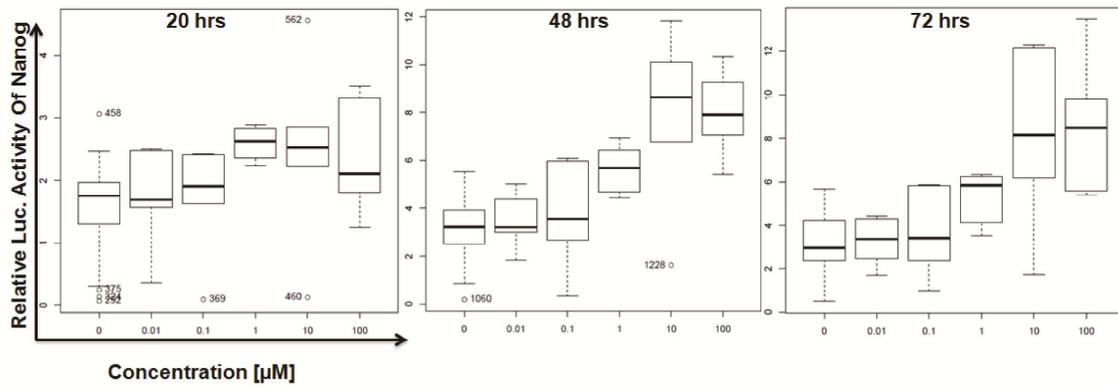
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<b>SI. 1: Activation of Oct3/4 in NCCIT-Oct3/4.....</b>	<b>SI2</b>
<b>SI. 2: Activation of Nanog in NCCIT-Nanog.....</b>	<b>SI3</b>
<b>SI. 3: Alkaline phosphatase staining.....</b>	<b>SI4</b>
<b>SI. 4: Structure optimization.....</b>	<b>SI5</b>
<b>SI . 5: Amidation of compound 22.....</b>	<b>SI6</b>

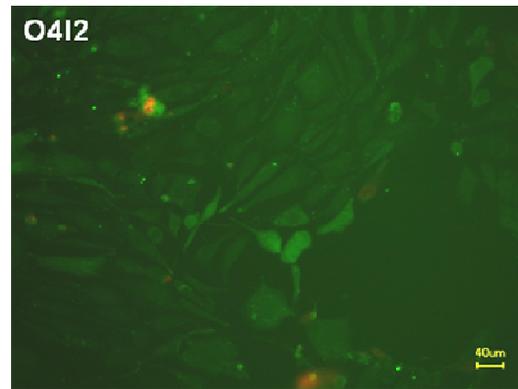
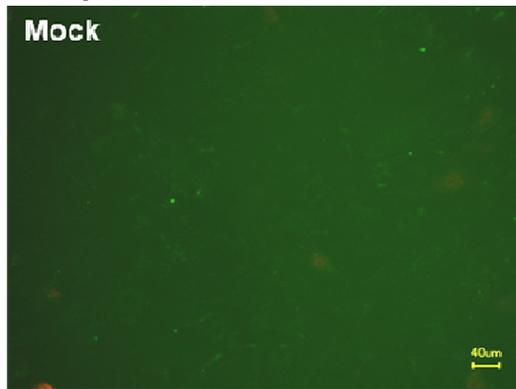


SI. 1: Activation of Oct3/4 in NCCIT-Oct3/4 treated with O4I2. The results at three time points were selected and analyzed.

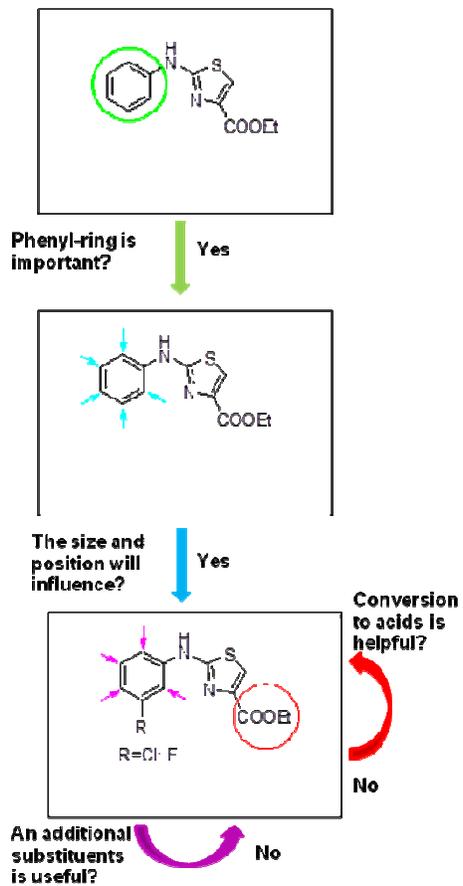


SI. 2: Activation of Nanog in NCCIT-Nanog cells treated with O4I2. The results at three time points were selected and analyzed.

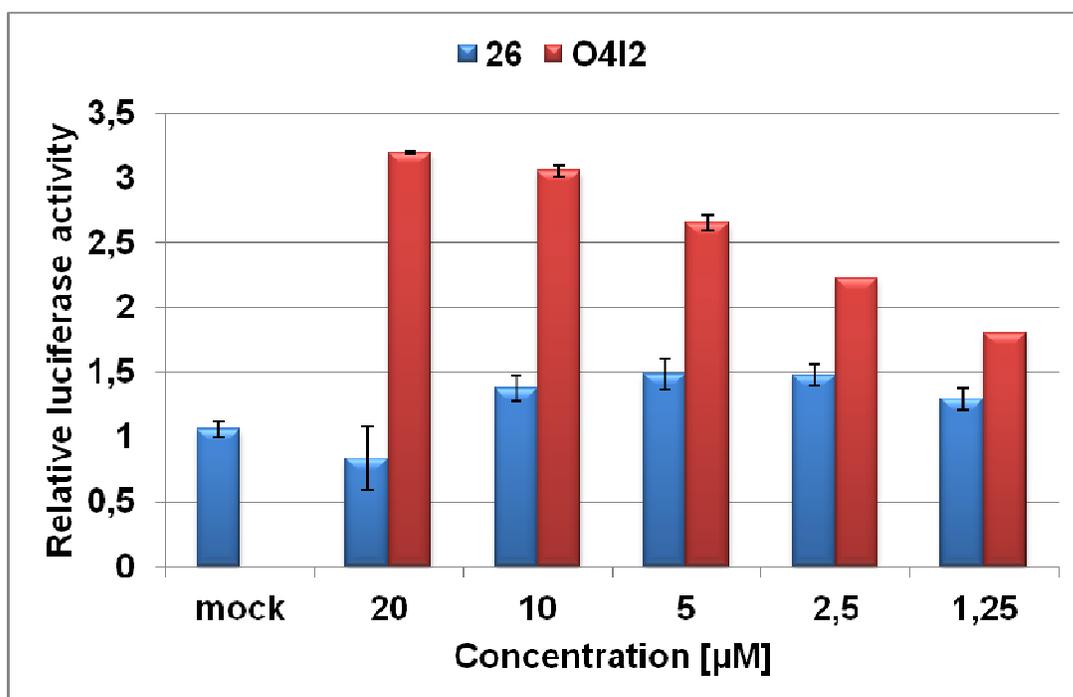
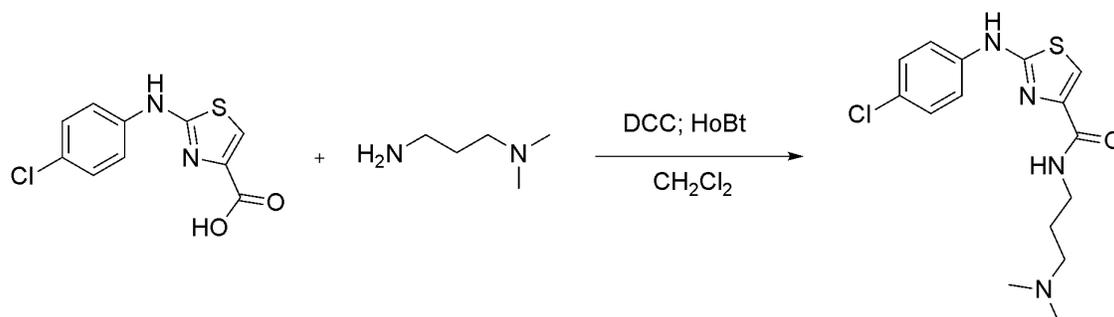
5 Days ALP/PI



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



SI 4: Structure optimization



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