

产品名称 : O4I2

同义词 : O4I2 | O-4I2 | O4I-2

产品货号 : M17360

CAS Number : 165682-93-9

分子式 : C₁₂H₁₁ClN₂O₂S

分子量 : 282.75

化学全名 : ethyl 2-((4-chlorophenyl)amino)thiazole-4-carboxylate

产品描述 : O4I2 is a potent inducers of Oct3/4. O4I2 showed high activity in enforcing Oct3/4 expression. O4I2 is a new class of small molecules suitable for iPSC generation. The octamer-binding transcription factor 4 (Oct3/4) is a master gene in the transcriptional regulatory network of pluripotent cells. Repression of Oct3/4 in embryonic stem cells (ESCs) is associated with cell differentiation and loss of pluripotency, whereas forced overexpression in cooperation with other transcriptional factors, such as Nanog, Sox2, and Lin28, can reprogram somatic cells back into pluripotent cells, termed induced pluripotent stem cells (iPSCs).

通路 : MAPK/ERK Signaling

靶点 : Raf

受体 : OCT3| OCT4

溶解度 : DMSO : ≥ 42 mg/mL; 148.54 mM

SMILES : CCOC(=O)c1csc(n1)Nc1ccc(cc1)Cl

存储条件 : (-20℃)

稳定性 : ≥ 2 years

参考文献 :

1. Cheng X, et al. J Med Chem. 2015 Aug 13;58(15):5742-5750.

