

产品名称: **Ethyl 4-((4-chlorophenyl)amino)-3,5-thiazolecarboxylate**
 产品别名: **O4I2**

生物活性:

Description	O4I2 is a potent Oct3/4 inducer in various human cell lines including human fibroblasts. Target: Oct3/4 O4I2 activates Oct3/4 in HEK293 and embryonal NCCIT cells, and also in Oct-deficient HeLa and terminally differentiated human fibroblasts. O4I2 activates also other pluripotency-associated genes such as Lin28 and Nanog in a drug-like manner. O4I2 shows high activity in enforcing Oct3/4 expression. O4I2 activates Oct3/4 on the transcriptional and translational level in human fibroblasts. O4I2 promotes the expression of pluripotency-associated genes as analyzed by qRT-PCR in human neonatal foreskin fibroblasts (HFFs). O4I2 markedly stimulates Oct3/4 even at 5 μM after 72 h treatment on the translational level.																	
Solvent&Solubility	<i>In Vitro:</i> DMSO :≥ 42 mg/mL (148.54 mM) H2O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.																	
	<table><tr><td rowspan="4">Preparing Stock Solutions</td><td> Solvent Mass Concentration </td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>3.5367 mL</td><td>17.6835 mL</td><td>35.3669 mL</td></tr><tr><td>5 mM</td><td>0.7073 mL</td><td>3.5367 mL</td><td>7.0734 mL</td></tr><tr><td>10 mM</td><td>0.3537 mL</td><td>1.7683 mL</td><td>3.5367 mL</td></tr></table>	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	1 mM	3.5367 mL	17.6835 mL	35.3669 mL	5 mM	0.7073 mL	3.5367 mL	7.0734 mL	10 mM	0.3537 mL	1.7683 mL	3.5367 mL
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*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。 <i>In Vivo:</i> 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂： ——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶																		
1.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (8.84 mM); Suspended solution; Need ultrasonic 此方案可获得 2.5 mg/mL (8.84 mM)的均匀悬浊液，悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。																		
References	[1]. Cheng X, et al. Ethyl 2-((4-Chlorophenyl)amino)thiazole-4-carboxylate and Derivatives Are Potent Inducers of Oct3/4. J Med Chem. 2015 Aug 13;58(15):5742-5750.																	