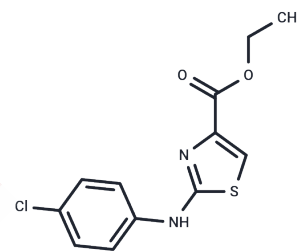


O412

Chemical Properties

CAS No. : 165682-93-9
 Formula: C₁₂H₁₁ClN₂O₂S
 Molecular Weight: 282.75
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	O412 is an effective Oct3/4 inducer in various human cell lines including human fibroblasts.
Targets(IC50)	OCT
In vitro	O412 activates Oct3/4 expression in HEK293 and embryonal NCCIT cells, and also in Oct-deficient HeLa and terminally differentiated human fibroblasts, and also induces other pluripotency-associated genes such as Lin28 and Nanog. [1]

Solubility Information

Solubility	Ethanol: 14.1 mg/mL (49.87 mM), Sonication is recommended. DMSO: 28.3 mg/mL (100.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0707 mL	0.3537 mL	0.7073 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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