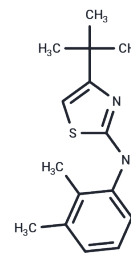


O414

Chemical Properties

CAS No. :	412008-21-0
Formula:	C ₁₅ H ₂₀ N ₂ S
Molecular Weight:	260.4
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	O414 is an OCT4-inducing compound capable of activating endogenous OCT4 and its associated signaling pathways in a variety of cell lines, with the advantage of metabolic stability. Oct4-inducing Compound 4 has shown anti-aging effects in Cryptobacterium hidradii nematodes and Drosophila, and O414 can be used as a substitute for exogenous OCT4 to reprogram human fibroblasts to a pluripotent state, with potential applications in regenerative medicine.
Targets(IC50)	Others,OCT

Solubility Information

Solubility	DMSO: 200 mg/mL (768.05 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	3.8402 mL	19.2012 mL	38.4025 mL
5 mM	0.768 mL	3.8402 mL	7.6805 mL
10 mM	0.384 mL	1.9201 mL	3.8402 mL
50 mM	0.0768 mL	0.384 mL	0.768 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

Kang H, et al. Development of a next-generation endogenous OCT4 inducer and its anti-aging effect in vivo. Eur J Med Chem. 2023 Sep 5;257:115513.

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