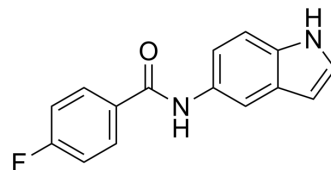


Oct4 inducer-1

Cat. No.:	HY-119672
CAS No.:	182564-41-6
Molecular Formula:	C ₁₅ H ₁₁ FN ₂ O
Molecular Weight:	254.26
Target:	Oct3/4
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (983.25 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.9330 mL	19.6649 mL	39.3298 mL	
5 mM	0.7866 mL	3.9330 mL	7.8660 mL	
10 mM	0.3933 mL	1.9665 mL	3.9330 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Oct4 inducer-1 (compound OAC-3) is a potent Oct4 activator. Oct4 inducer-1 activates Oct4 and Nanog promoters and enhances induced pluripotent stem cells (iPSC) formation. Oct4 inducer-1 facilitates the reprogramming of cells by enhancing efficiency and shortening the reprogramming time^[1].

In Vitro

Oct4 inducer-1 (compound OAC-3; 1 μM) enhances reprogramming efficiency by activating Oct4-luc reporter and Nanog-luc reporter in embryonic stem cells (ESCs). Oct4 inducer-1 increases induced pluripotent stem cells (iPSC) generation and accelerates the appearance of iPSC-like colonies^[1].

Oct4 inducer-1 (1 μM; 4F (OSKM) infected mouse embryonic fibroblast (MEF)) enhances reprogramming efficiency in iSF1 media^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hong SY, et, al. Enhancers of induced pluripotent stem cell reprogramming. US20140154805.

Caution: Product has not been fully validated for medical applications. For research use only.

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