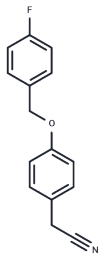
Data Sheet (Cat.No.T3221)

TargetMol

Oct3/4-inducer-1

Chemical Properties



CAS No. : 1016535-83-3

Formula: C15H12FNO

Molecular Weight: 241.26

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	Oct3/4-inducer-1 (2-(4-(4-methoxybenzyloxy)phenyl)acetonitrile) is an OCT3/4 inducer that promotes the expression and stabilization of OCT3/4 and enhances its transcriptional activity in a variety of human cells.
Targets(IC50)	OCT

Solubility Information

Solubility	DMSO: 11 mg/mL (45.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.29 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1449 mL	20.7245 mL	41.4491 mL
5 mM	0.829 mL	4.1449 mL	8.2898 mL
10 mM	0.4145 mL	2.0725 mL	4.1449 mL
50 mM	0.0829 mL	0.4145 mL	0.829 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

Popp, T., Tallant, C., Rogers, C., Fedorov, O., Brennan, P., & Müller, S. et al. (2016). Development of Selective CBP/P300 Benzoxazepine Bromodomain Inhibitors. Journal Of Medicinal Chemistry, 59(19), 8889-8912. doi: 10.1021/acs.jmedchem.6b00774

Yoshioka, N., & Dowdy, S. (2017). Enhanced generation of iPSCs from older adult human cells by a synthetic five-factor self-replicative RNA. PLOS ONE, 12(7), e20182018. doi: 10.1371/journal.pone.20182018