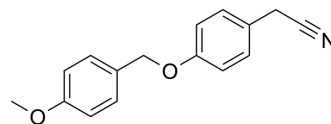


## O4I1

Cat. No.:	HY-18771		
CAS No.:	175135-47-4		
Molecular Formula:	C <sub>16</sub> H <sub>15</sub> NO <sub>2</sub>		
Molecular Weight:	253.3		
Target:	Oct3/4		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 38 mg/mL (150.02 mM)

\* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9479 mL	19.7394 mL	39.4789 mL
	5 mM	0.7896 mL	3.9479 mL	7.8958 mL
	10 mM	0.3948 mL	1.9739 mL	3.9479 mL

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

### BIOLOGICAL ACTIVITY

#### Description

O4I1 is as a potent Oct3/4 inducer. Target: Oct3/4/O4I1 enhances Oct3/4 gene expression, increases Oct3/4 protein levels, and promotes Oct3/4 mediated transcriptional activation. O4I1 activates Oct3/4 at the transcriptional and translational levels in diverse human cell lines. O4I1 promotes Oct3/4 expression in untransfected HEK293 cells quantified by qRT-PCR after 72 h of treatment. O4I1 is sufficient to enhance Oct3/4 overexpression 2-fold and 3-fold after 48 and 72 h of treatment, respectively.

### REFERENCES

- [1]. Cheng X, et al. Identification of 2-[4-[(4-Methoxyphenyl)methoxy]-phenyl]acetonitrile and Derivatives as Potent Oct3/4 Inducers. J Med Chem. 2015 Jun 25;58(12):4976-4983.
- [2]. Mrowka, et al. Method for activating OCT4 for induction of pluripotent stem cell formation. From PCT Int. Appl. (2014), WO 2014000814 A1 20140103.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA