产品名称：**2-(4-[(4-甲氧基苄基)氧基]苯基)乙腈**
产品别名：**O4I1**

生物活性：

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.

Solvent&Solubility

In Vitro:

DMSO : ≥ 38 mg/mL (150.02 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。 -80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

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.

源叶生物