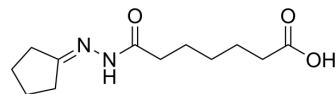


## IDE 2

Cat. No.:	HY-100534		
CAS No.:	1136466-93-7		
Molecular Formula:	C <sub>12</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>		
Molecular Weight:	240.3		
Target:	TGF-beta/Smad; Organoid		
Pathway:	Stem Cell/Wnt; TGF-beta/Smad		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 25 mg/mL (104.04 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1615 mL	20.8073 mL	41.6146 mL
	5 mM	0.8323 mL	4.1615 mL	8.3229 mL
	10 mM	0.4161 mL	2.0807 mL	4.1615 mL

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

## BIOLOGICAL ACTIVITY

### Description

IDE2 is a small molecule cell-permeable inducer of definitive endoderm formation in mouse and human embryonic stem cells (ESCs) by activating the TGF- $\beta$  signaling pathway<sup>[1]</sup>.

## REFERENCES

[1]. Borowiak M, et al. Small molecules efficiently direct endodermal differentiation of mouse and human embryonic stem cells. *Cell Stem Cell*. 2009 Apr 3;4(4):348-58.

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

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