

Product data sheet



MedKoo Cat#: 530489 Name: IDE1 CAS: 1160927-48-9 Chemical Formula: C ₁₅ H ₁₈ N ₂ O ₅ Exact Mass: 306.1216 Molecular Weight: 306.318	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

IDE1 is a potent cell-permeable definitive endoderm formation inducer (EC₅₀ = 125 nM, ESC) similar to IDE 2 (ab145223). IDE1 induces Sox17 expression. It also activates TGF-β signaling and downstream Smad2 phosphorylation. IDE1 upregulates Nodal expression.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	30.0	97.94
DMF:PBS (pH 7.2) (1:1)	0.5	1.63
DMSO	28.54	93.18
Ethanol	0.1	0.33

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.26 mL	16.32 mL	32.65 mL
5 mM	0.65 mL	3.26 mL	6.53 mL
10 mM	0.33 mL	1.63 mL	3.26 mL
50 mM	0.07 mL	0.33 mL	0.65 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

IDE1 is an inducer of definitive endoderm 1.

In vitro activity

TBD

Product data sheet



In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.