

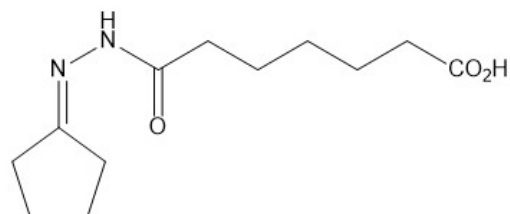
## IDE2, Inducer of definitive endoderm

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Catalog	Unit
TBI4160-5MG	5 mg
TBI4160-25MG	25 mg

### Product Details

**Formal Name:** 7-(2-Cyclopentylidenehydrazinyl)-7-oxoheptanoic acid  
**Alternate Names:** 6-(N'-Cyclopentylidenehydrazinyl)hexanoic acid  
**Molecular Formula:** C<sub>12</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub>  
**Formula Weight:** 240.3  
**CAS Number:** 1136466-93-7  
**Purity:** >98%  
**Formulation:** Powder  
**Solubility:** Soluble in DMSO (up to 25 mg/ml)  
**Storage:** -20°C  
**Stability:** ≥ 2 years.



### Applications

Inducer of definitive endoderm

### Functions

Induces robust differentiation of embryonic stem cells into endoderm (EC<sub>50</sub> = 223 nM) in both mouse and human cells via activation of the TGFβ signaling pathway. It was able to induce definitive endoderm in mouse embryonic stem cells in a protocol to create lung alveolar epithelial cells.

### Application Procedures

First dissolved in DMSO (25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**