

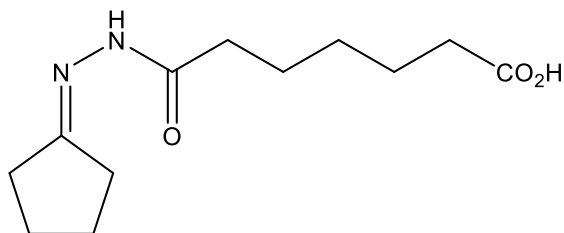
Catalog # 10-4160

IDE2

CAS# 1136466-93-7

7-(2-Cyclopentylidenehydrazinyl)-7-oxoheptanoic acid; 6-(N'-Cyclopentylidenehydrazinecarbonyl)hexanoic acid

Lot # FBS3067



IDE2 induces robust differentiation of embryonic stem cells into endoderm ($EC_{50} = 223$ nM) in both mouse and human cells *via* activation of the TGF β signaling pathway.¹ It was able to induce definitive endoderm in mouse embryonic stem cells in a protocol to create lung alveolar epithelial cells.²

- 1) Borowiak *et al.* (2009) *Small molecules efficiently direct endodermal differentiation of mouse and human embryonic stem cells*; Cell Stem Cell, **4** 348
- 2) Dezfouli *et al.* (2019) *Hydrocortisone Promotes Differentiation of Mouse Embryonic Stem Cell-Derived Definitive Endoderm toward Lung Alveolar Epithelial Cells*; Cell J. **20** 469

PHYSICAL DATA

Molecular Weight:	240.30
Molecular Formula:	C ₁₂ H ₂₀ N ₂ O ₃
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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