



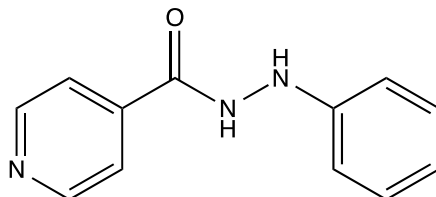
Catalog # 10-1451

PluriSIn-1

CAS# 91396-88-2

N'-Phenylpyridine-4-carbohydrazide; 4-Pyridinecarboxylic acid 2-phenylhydrazide

Lot # X105605



PluriSIn-1 is an inhibitor of stearoyl-coA desaturase (SCD1). PluriSIn-1 was able to selectively eliminate human pluripotent stem cells (hPSCs) while not affecting a large array of progenitor and differentiated cells.¹ The ability to eliminate potentially tumorigenic undifferentiated cells is important for increasing the safety of hPSC-based treatments. PluriSIn-1 has been used to successfully eliminate tumorigenic cells in cardiomyocytes² and chondrogenic cells³.

- 1) Ben-David *et al.* (2013), *Selective elimination of human pluripotent stem cells by an oleate synthesis inhibitor discovered in a high-throughput screen*; Cell Stem Cell. **12** 167
- 2) Zhang *et al.* (2014), *Inhibition of stearoyl-coA desaturase eliminates tumorigenic Nanog-positive cells: improving the safety of iPS cell transplantation to myocardium*; Cell Cycle **13** 762
- 3) Cheng *et al.* (2014), *Cartilage Repair Using Human Embryonic Stem Cell-Derived Chondroprogenitors*; Stem Cells Transl.Med. **3** 1287

PHYSICAL DATA

Molecular Weight:	213.24
Molecular Formula:	C ₁₂ H ₁₁ N ₃ O
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month.

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