

## Certificate of Analysis

**Product Name:** PluriSIn 1

**Catalog No.:** 4847

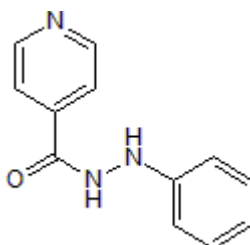
**Batch No.:** 1

CAS Number: 91396-88-2

IUPAC Name: 4-Pyridinecarboxylic acid 2-phenylhydrazide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>12</sub>H<sub>11</sub>N<sub>3</sub>O  
**Batch Molecular Weight:** 213.24  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.59	5.2	19.71
Found	67.41	5.1	19.48

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Stearoyl-CoA desaturase 1 (SCD1) inhibitor. Used to selectively eliminate undifferentiated human pluripotent stem cells (hPSCs) from culture; induces ER stress, attenuates protein synthesis and induces apoptosis in hPSCs. Prevents teratoma formation in immunocompromised mice.

**Physical and Chemical Properties:**

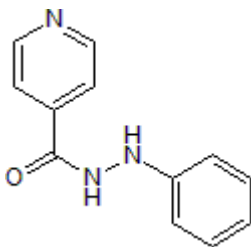
Batch Molecular Formula: C<sub>12</sub>H<sub>11</sub>N<sub>3</sub>O

Batch Molecular Weight: 213.24

Physical Appearance: Beige solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**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. PMID: 23318055.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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