Print Date: Sep 18th 2014

Certificate of Analysis

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Product Name: **PluriSln 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: $C_{12}H_{11}N_3O$

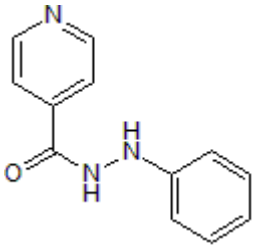
Batch Molecular Weight: 213.24

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

^{1}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

Tocris Bioscience is an R&D Systems company

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CAS Number: 91396-88-2

IUPAC Name: 4-Pyridinecarboxylic acid 2-phenylhydrazide

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:

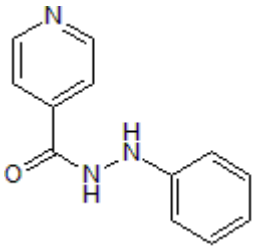
Batch Molecular Formula: $C_{12}H_{11}N_3O$

Batch Molecular Weight: 213.24

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

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.