

Certificate of Analysis

Product Name: AS 8351

Catalog No.: 6044

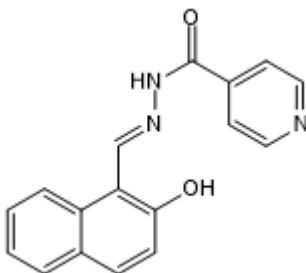
Batch No.: 1

CAS Number: 796-42-9

IUPAC Name: 2-Hydroxy-1-naphthaldehyde isonicotinoylhydrazone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₃N₃O₂
Batch Molecular Weight: 291.3
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.09	4.5	14.42
Found	70.05	4.43	14.48

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

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CAS Number: 796-42-9

IUPAC Name: 2-Hydroxy-1-naphthaldehyde isonicotinoylhydrazone

Description:

Induces reprogramming of human fetal lung fibroblasts into functional cardiomyocytes, in combination with CHIR 99021, A83-01, BIX 01294, SC1, Y-27632, OAC2, SU 16f and JNJ 10198409. Iron chelator and putative inhibitor of KDM5B.

Physical and Chemical Properties:

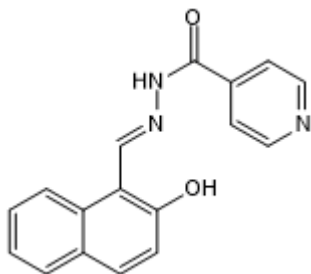
Batch Molecular Formula: C₁₇H₁₃N₃O₂

Batch Molecular Weight: 291.3

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cao et al (2016) Conversion of human fibroblasts into functional cardiomyocytes by small molecules. *Science* **352** 6290. PMID: 27127239 .

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM with gentle warming

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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