

## Certificate of Analysis

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**Product Name:** FH 1

**Catalog No.:** 5254

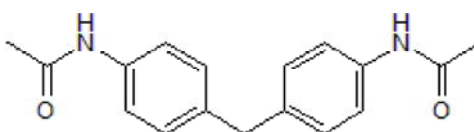
**Batch No.:** 1

CAS Number: 2719-05-3

IUPAC Name: *N,N'*-(Methylenedi-4,1-phenylene)bis-acetamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 282.34  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.32	6.43	9.92
Found	72.25	6.38	10.02

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

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**Catalog No.:** 5254

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CAS Number: 2719-05-3

IUPAC Name: *N,N'*-(Methylenedi-4,1-phenylene)bis-acetamide

**Description:**

FH 1 enhances differentiation of induced pluripotent stem cells (iPSCs) to hepatocytes; also promotes the maturation of iPSC-derived hepatocytes.

**Physical and Chemical Properties:**

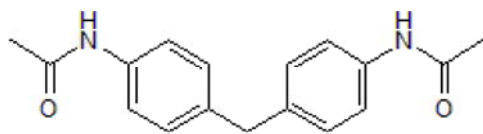
Batch Molecular Formula: C<sub>17</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 282.34

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO 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:**

**Shan *et al*** (2013) Identification of small molecules for human hepatocyte expansion and iPS differentiation. *Nat.Chem.Biol.* **9** 514. PMID: 23728495.

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