

# Certificate of Analysis

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**Product Name:** BRD 7116

**Catalog No.:** 5336

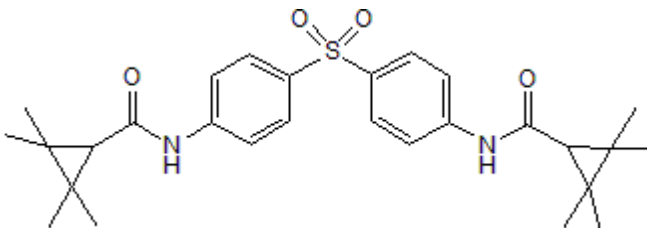
**Batch No.:** 1

**CAS Number:** 329059-55-4

**IUPAC Name:** *N,N*-(Sulfonyldi-4,1-phenylene)bis[2,2,3,3-tetramethylcyclopropanecarboxamide]

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>28</sub>H<sub>36</sub>N<sub>2</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 496.66  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.42 (Ethyl acetate:Petroleum ether [2:3])  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	67.71	7.31	5.64
Found	67.64	7.24	5.68

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

## Product Information

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### Description:

Inhibitor of leukemia stem cell (LSC) activity ( $EC_{50}$  = 200 nM). Exhibits >100-fold selectivity for LSCs over normal hematopoietic stem cells.

### Physical and Chemical Properties:

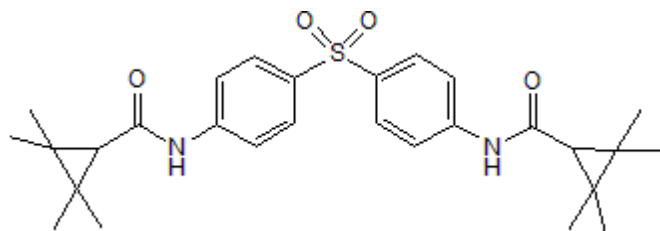
Batch Molecular Formula:  $C_{28}H_{36}N_2O_4S$

Batch Molecular Weight: 496.66

Physical Appearance: White solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at +4°C

### Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

**Hartwell** *et al* (2013) Niche-based screening identifies small-molecule inhibitors of leukemia stem cells. *Nat.Chem.Biol.* **9** 840. PMID: 24161946.

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