

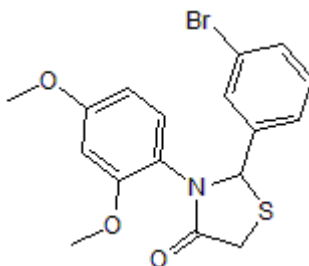
## Certificate of Analysis

**Product Name:** CK 869  
**CAS Number:** 388592-44-7  
**IUPAC Name:** 2-(3-Bromophenyl)-3-(2,4-dimethoxyphenyl)-4-thiazolidinone

**Catalog No.:** 4984      **Batch No.:** 1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>16</sub>BrNO<sub>3</sub>S  
**Batch Molecular Weight:** 394.28  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.79	4.09	3.55
Found	52.13	4.31	3.57

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

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**Description:**

Inhibitor of human and bovine actin-related protein 2/3 (Arp2/3) complex. Inhibits actin polymerization (IC<sub>50</sub>= 11 μM). Does not inhibit budding or fission yeast Arp2/3 complexes.

**Physical and Chemical Properties:**

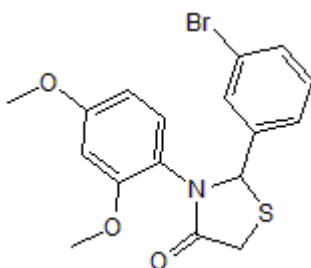
Batch Molecular Formula: C<sub>17</sub>H<sub>16</sub>BrNO<sub>3</sub>S

Batch Molecular Weight: 394.28

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 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.

**References:**

**Nolen et al** (2009) Characterization of two classes of small molecule inhibitors of Arp2/3 complex. *Nature* **460** 1031. PMID: 19648907.

**Hetrick et al** (2013) Small molecules CK-666 and CK-869 inhibit actin-related protein 2/3 complex by blocking an activating conformational change. *Chem Biol.* **20** 701. PMID: 23623350.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956