

## Certificate of Analysis

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**Product Name:** SC 66

**Catalog No.:** 4398

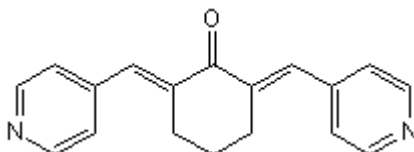
**Batch No.:** 1

**CAS Number:** 871361-88-5

**IUPAC Name:** (2*E*,6*E*)-2,6-Bis(4-pyridinylmethylene)cyclohexanone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O  
**Batch Molecular Weight:** 276.33  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 75 mM  
 ethanol to 75 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	78.23	5.84	10.14
Found	78.46	5.97	10.29

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

## Product Information

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**CAS Number:** 871361-88-5

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### Description:

Allosteric inhibitor of Akt; interferes with pleckstrin homology domain binding to PIP3 and facilitates Akt ubiquitination. Exhibits anticancer activity in vitro and in vivo.

### Physical and Chemical Properties:

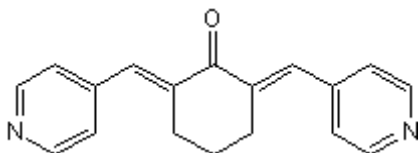
Batch Molecular Formula: C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O

Batch Molecular Weight: 276.33

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at -20°C

### Solubility & Usage Info:

DMSO to 75 mM

ethanol to 75 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:

**Jo et al** (2011) Deactivation of Akt by a small molecule inhibitor targeting pleckstrin homology domain and facilitating Akt ubiquitination. *Proc.Natl.Acad.Sci.USA* **108** 6486. PMID: 21464312.

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