

## Certificate of Analysis

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**Product Name:** GSK 1059615

**Catalog No.:** 4026

**Batch No.:** 1

CAS Number: 958852-01-2

IUPAC Name: 5-[[4-(4-Pyridinyl)-6-quinolinyl]methylene]-2,4-thiazolidenedione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>S·½H<sub>2</sub>O

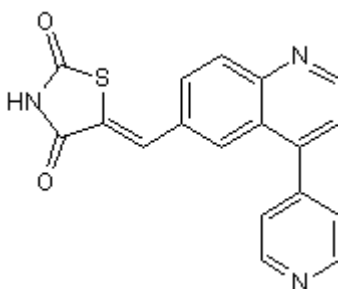
**Batch Molecular Weight:** 342.37

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 10 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.41 (Chloroform:Methanol [9:1])

**HPLC:** Shows 98.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.15	3.53	12.27
Found	63.1	3.7	12.17

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**Description:**

Potent inhibitor of PI 3-kinase  $\alpha$  (PI3K $\alpha$ ) (IC<sub>50</sub> = 2 nM). Inhibits proliferation in BT474 cells and attenuates MAPK signaling.

**Physical and Chemical Properties:**

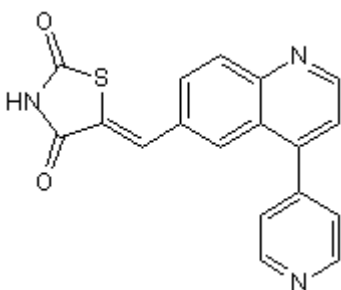
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Batch Molecular Weight: 342.37

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 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:**

**Saadia et al** (2009) Phosphatidylinositol-3-kinase as a therapeutic target in melanoma. *Clin.Cancer Res.* **15** 3029. PMID: 19383818.

**Knight et al** (2010) Discovery of GSK2126458, a highly potent inhibitor of PI3K and the mammalian target of rapamycin. *ACS Med.Chem.Lett.* **1** 39.

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