

## Certificate of Analysis

**Product Name:** UNC 3230

**Catalog No.:** 5271

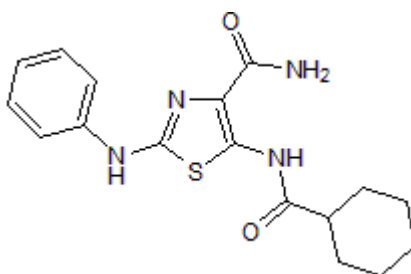
**Batch No.:** 1

CAS Number: 1031602-63-7

IUPAC Name: 5-[(Cyclohexylcarbonyl)amino]-2-(phenylamino)-thiazolecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>S  
**Batch Molecular Weight:** 344.43  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.29 (Ethyl acetate:Petroleum ether [2:1])  
**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.28	5.85	16.27
Found	59.28	5.86	16.2

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

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**Description:**

Potent and selective PIP5K1C inhibitor ( $IC_{50} = 41$  nM). Exhibits selectivity for PIP5K1C over PIP5K1A, the PI 3-kinase family and a panel of other kinases. Reduces PIP<sub>2</sub> levels and LPA-induced calcium signaling in dorsal root ganglia (DRG) neurons in vitro. Reduces nociception in mouse models of chronic pain.

**Physical and Chemical Properties:**

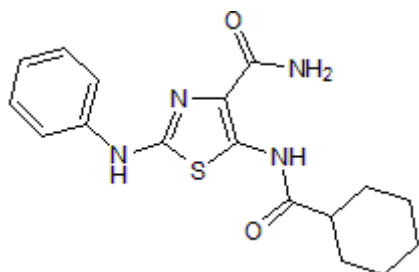
Batch Molecular Formula: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>S

Batch Molecular Weight: 344.43

Physical Appearance: Pale yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Wright et al** (2014) The lipid kinase PIP5K1C regulates pain signaling and sensitization. *Neuron* **82** 836. PMID: 24853942.

**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.

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