

**Product Name:** ESI 09

**Catalog No.:** 4773

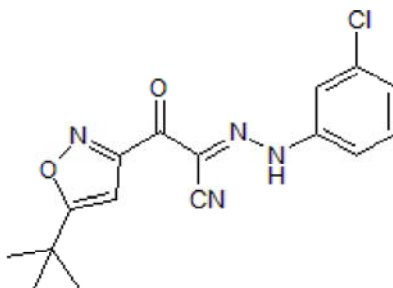
**Batch No.:** 2

CAS Number: 263707-16-0

IUPAC Name:  $\alpha$ -[(2-(3-Chlorophenyl)hydrazinylidene)-5-(1,1-dimethylethyl)- $\beta$ -oxo-3-isoxazolepropanenitrile

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>15</sub>ClN<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 330.77  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
ethanol to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.1	4.57	16.94
Found	58.48	4.78	16.53

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

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**Description:**

ESI 09 is an EPAC inhibitor. Inhibits EPAC-mediated insulin release from pancreatic  $\beta$  cells. Selective for EPAC over PKA. ESI 09 decreases migration and invasion of AsPc-1 and PANC-1 pancreatic cancer cells in vitro.

**Physical and Chemical Properties:**

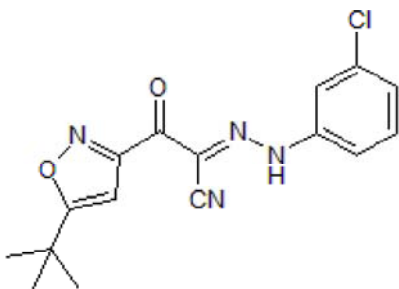
Batch Molecular Formula: C<sub>16</sub>H<sub>15</sub>ClN<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 330.77

Physical Appearance: Yellow solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**References:**

Almahariq *et al* (2013) A novel EPAC-specific inhibitor suppresses pancreatic cancer cell migration and invasion. *Mol.Pharmacol.* **83** 122. PMID: 23066090.

**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.

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