

Product Name: ESI 09

Catalog No.: 4773

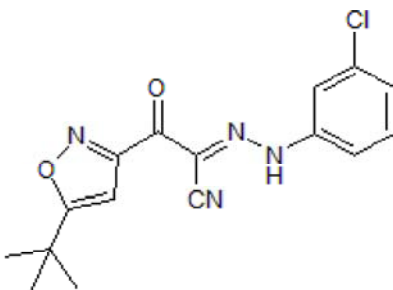
Batch No.: 2

CAS Number: 263707-16-0

IUPAC Name: α -[(2-(3-Chlorophenyl)hydrazinylidene]-5-(1,1-dimethylethyl)- β -oxo-3-isoxazolepropanenitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₅ClN₄O₂
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
¹H 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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IUPAC Name: α -[(2-(3-Chlorophenyl)hydrazinylidene)-5-(1,1-dimethylethyl)- β -oxo-3-isoxazolepropanenitrile

Description:

EPAC inhibitor. Inhibits EPAC-mediated insulin releases from pancreatic β cells. Selective for EPAC over PKA. Decreases migration and invasion of AsPc-1 and PANC-1 pancreatic cancer cells in vitro.

Physical and Chemical Properties:

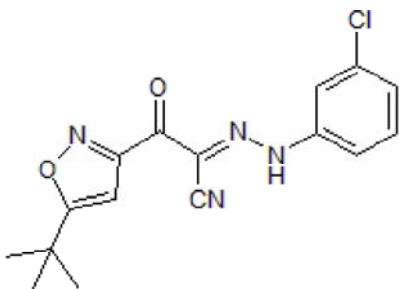
Batch Molecular Formula: C₁₆H₁₅ClN₄O₂

Batch Molecular Weight: 330.77

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

References:

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

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