

Certificate of Analysis

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Product Name: T 5601640

Catalog No.: 5269

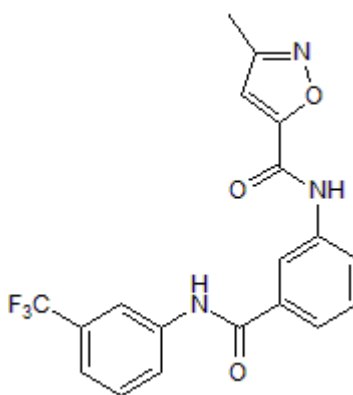
Batch No.: 1

CAS Number: 924473-59-6

IUPAC Name: 3-Methyl-N-[3-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]phenyl]-5-isoxazolecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄F₃N₃O₃
Batch Molecular Weight: 389.33
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 58.61 | 3.62 | 10.79 |
| Found | 58.71 | 3.55 | 10.77 |

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

Product Information

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Description:

Selective LIM kinase 2 (LIMK2) inhibitor; inhibits cofilin phosphorylation in cells that overexpress LIMK2 but not LIMK1. Attenuates the growth of several cancer cell lines. Reduces phospho-cofilin levels and Panc-1 tumor size in a mouse xenograft model.

Physical and Chemical Properties:

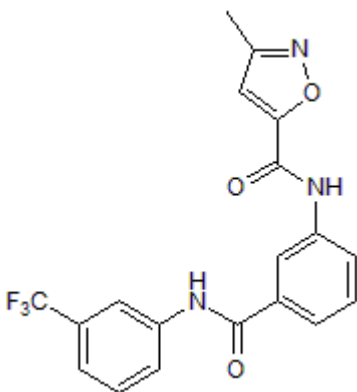
Batch Molecular Formula: C₁₉H₁₄F₃N₃O₃

Batch Molecular Weight: 389.33

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Mashiach-Farkash *et al* (2012) Computer-based identification of a novel LIMK1/2 inhibitor that synergizes with salirasib to destabilize the actin cytoskeleton. *Oncotarget* **3** 629. PMID: 22776759.

Rak *et al* (2014) Novel LIMK2 inhibitor blocks Panc-1 tumor growth in a mouse xenograft model. *Oncoscience* **1** 39. PMID: 25593987.

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