

Certificate of Analysis

Product Name: INCB 024360-analog

Catalog No.: 6007

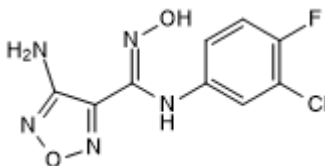
Batch No.: 1

CAS Number: 914471-09-3

IUPAC Name: 4-Amino-*N*-(3-chloro-4-fluorophenyl)-*N*-hydroxy-1,2,5-oxadiazole-3-carboximidamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₇ClFN₅O₂
Batch Molecular Weight: 271.64
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.8	2.6	25.77
Found	39.78	2.6	25.96

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

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Description:

Potent indoleamine 2,3-dioxygenase (IDO) inhibitor (IC₅₀ values are 19 and 67 nM in enzymatic activity and HeLa cell assays, respectively). Decreases kynurenine levels in plasma and reduces tumor growth *in vivo*. Cell membrane permeable.

Physical and Chemical Properties:

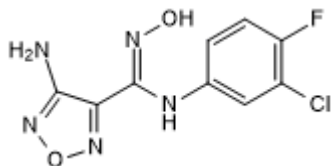
Batch Molecular Formula: C₉H₇ClFN₅O₂

Batch Molecular Weight: 271.64

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

References:

Weinmann (2016) Cancer immunotherapy: selected targets and small-molecule modulators. *Chem.Med.Chem.* **11** 450. PMID: 26836578.

Dounay et al (2015) Challenges and opportunities in the discovery of new therapeutics targeting the kynurenine pathway. *J.Med.Chem.* **58** 8762. PMID: 26207924.

Yue et al (2009) Discovery of potent competitive inhibitors of indoleamine 2,3-dioxygenase with *in vivo* pharmacodynamic activity and efficacy in a mouse melanoma model. *J.Med.Chem.* **52** 7364. PMID: 19507862.

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