

Certificate of Analysis

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Product Name: INCB 024360-analog

Catalog No.: 6007

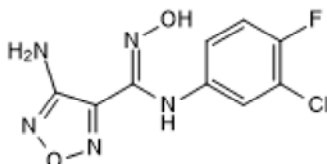
Batch No.: 1

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:	C ₉ H ₇ ClFN ₅ O ₂
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 99.4% 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:

INCB 024360-analog is a 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:

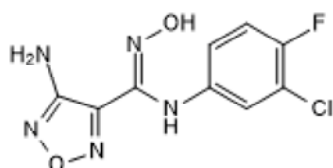
Batch Molecular Formula: C₉H₇ClFN₅O₂

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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