

## Certificate of Analysis

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**Product Name:** PF 06409577

**Catalog No.:** 6114

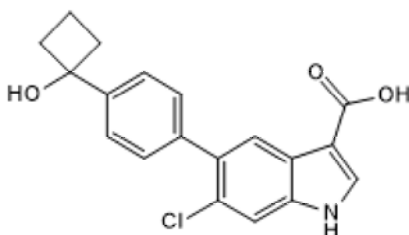
**Batch No.:** 2

CAS Number: 1467057-23-3

IUPAC Name: 6-Chloro-5-[4-(1-hydroxycyclobutyl)phenyl]-1*H*-indole-3-carboxylic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>16</sub>ClNO<sub>3</sub>  
**Batch Molecular Weight:** 341.79  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.77	4.72	4.1
Found	66.54	4.56	4.04

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

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**Description:**

Potent and selective allosteric activator of AMPK (EC<sub>50</sub> values are 7 and >40000 nM for AMPKα1β1γ1 and AMPKα1β2γ1, respectively). Exhibits minimal off-target effects on a panel of receptors, ion channels, PDEs and kinases. Improves kidney function and reduces proteinuria in a preclinical model of diabetic nephropathy. Orally bioavailable.

**Physical and Chemical Properties:**

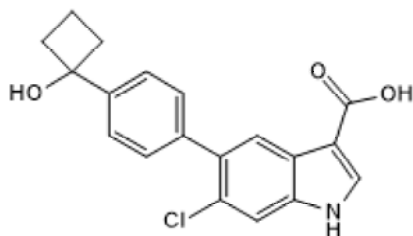
Batch Molecular Formula: C<sub>19</sub>H<sub>16</sub>ClNO<sub>3</sub>

Batch Molecular Weight: 341.79

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Salatto et al** (2017) Selective activation of AMPK β1-containing isoforms improves kidney function in a rat model of diabetic nephropathy. *J.Pharmacol.Exp.Ther.* **361** 303. PMID: 28289077.

**Cameron et al** (2016) Discovery and preclinical characterization of 6-Chloro-5-[4-(1-hydroxycyclobutyl)phenyl]-1*H*-indole-3-carboxylic Acid (PF-06409577), a direct activator of adenosine monophosphate-activated protein kinase (AMPK), for the potential treatment of diabetic nephropathy. *J.Med.Chem.* **59** 8068. PMID: 27490827.

**Storage:** Store at RT

**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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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