

**Product Name:** Crizotinib

**Catalog No.:** 4368

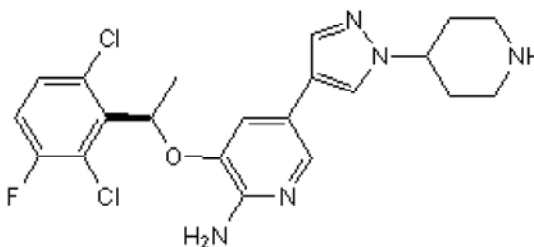
**Batch No.:** 2

CAS Number: 877399-52-5

IUPAC Name: 3-[(1*R*)-1-(2,6-Dichloro-3-fluorophenyl)ethoxy]-5-[1-(4-piperidinyl)-1*H*-pyrazol-4-yl]-2-pyridinamine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>22</sub>Cl<sub>2</sub>FN<sub>5</sub>O  
**Batch Molecular Weight:** 450.34  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM  
 ethanol to 10 mM  
 2eq.HCl to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.01	4.92	15.55
Found	56.01	4.92	15.64

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

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**Description:**

Potent inhibitor of c-MET and anaplastic lymphoma kinase (ALK) (cell IC<sub>50</sub> values are 8.0 and 20 nM respectively). Displays antitumor efficacy in multiple tumor models; inhibits c-MET-dependent proliferation, migration and invasion of human tumor cells in vitro. Selective for c-MET and ALK against >120 different kinases. Orally bioavailable.

**Physical and Chemical Properties:**

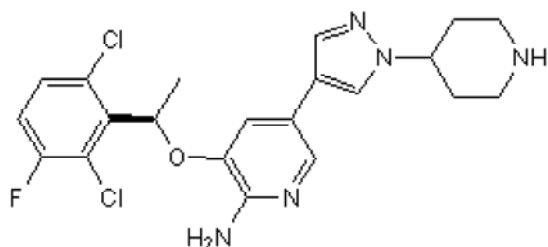
Batch Molecular Formula: C<sub>21</sub>H<sub>22</sub>Cl<sub>2</sub>FN<sub>5</sub>O

Batch Molecular Weight: 450.34

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

Soluble to 20 mM in DMSO and to 10 mM in ethanol

**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:**

**Christensen et al (2007)** Cyto-reductive antitumor activity of PF-2341066, a novel inhibitor of anaplastic lymphoma kinase and c-Met, in experimental models of anaplastic large-cell lymphoma. *Mol.Cancer Ther.* **6** 3314. PMID: 18089725.

**Zou et al (2007)** An orally available small-molecule inhibitor of c-Met, PF-2341066, exhibits cyto-reductive antitumor efficacy through antiproliferative and antiangiogenic mechanisms. *Cancer Res.* **67** 4408. PMID: 17483355.

**Cui et al (2011)** Structure based drug design of crizotinib (PF-02341066), a potent and selective dual inhibitor of mesenchymal-epithelial transition factor (c-MET) kinase and anaplastic lymphoma kinase (ALK). *J.Med.Chem.* **54** 6342. PMID: 21812414.

Congratulations on your purchase of Crizotinib, sold under license from Pfizer, Inc. If your research with Crizotinib results in a new discovery (e.g., new uses, new combinations, etc.) Pfizer is interested in discussing these discoveries with you. Also note that Pfizer has a Compound Transfer Program that provides a free sample of any Pfizer product at [www.pfizer.com/research/rd\\_works/compound\\_transfer\\_program.jsp](http://www.pfizer.com/research/rd_works/compound_transfer_program.jsp)

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