1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{21}\text{H}_{22}\text{Cl}_2\text{FN}_5\text{O} \)
   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

2. ANALYTICAL DATA

   HPLC: Shows 99.8% purity
   \(^1H\) NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>56.01</td>
<td>56.01</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.92</td>
<td>4.92</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>15.55</td>
<td>15.64</td>
</tr>
</tbody>
</table>

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

**Product Name:** Crizotinib  
**Catalog No.:** 4368  
**Batch No.:** 2

**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>12</sub>Cl<sub>2</sub>F<sub>3</sub>N<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:**

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