Product Name: P21d hydrochloride  
Catalog No.: 6073  
Batch No.: 1

IUPAC Name: [4-[[6-Cyclopropyl-3-(1H-pyrazol-4-yl)imidazo[1,2-a]pyrazin-8-yl]amino]-3-fluorophenyl]-4-morpholinylmethanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{23}H_{22}FN_{7}O_{2}.HCl.2H_{2}O
Batch Molecular Weight: 519.96
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows >98.5% purity
\(^1\)H 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>53.13</td>
<td>53</td>
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<tr>
<td>Hydrogen</td>
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<tr>
<td>Nitrogen</td>
<td>18.86</td>
<td>18.93</td>
</tr>
</tbody>
</table>

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

**Product Name:** P21d hydrochloride

IUPAC Name: \[4-[[6-Cyclopropyl-3-(1H-pyrazol-4-yl)imidazo[1,2-a]pyrazin-8-yl]amino]-3-fluorophenyl]-4-morpholinylmethanone hydrochloride

**Catalog No.:** 6073  
**Batch No.:** 1

**Description:**
Potent and selective breast tumor kinase (Brk) inhibitor (IC_{50} = 30 nM). Exhibits >650-fold selectively for Brk over Aurora B kinase and Lck. Downregulates SNAIL protein, restores E-cadherin expression and suppresses migration in breast cancer cells. Also active in vivo and orally bioavailable.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{23}H_{25}F_{3}N_{5}O_{6}.HCl.2H_{2}O
- **Batch Molecular Weight:** 519.96
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Solubility & Usage Info:**
DMSO to 100 mM

**Storage:** Store at -20°C

**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:**