

**Product Name:** P21d hydrochloride

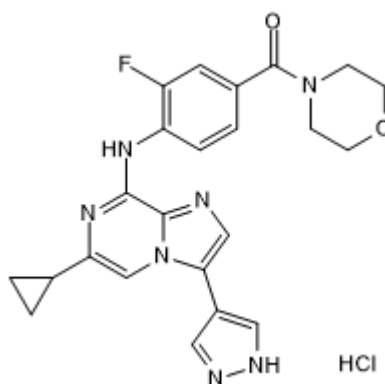
**Catalog No.:** 6073

**Batch No.:** 1

**IUPAC Name:** [4-[[[6-Cyclopropyl-3-(1*H*-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<sub>23</sub>H<sub>22</sub>FN<sub>7</sub>O<sub>2</sub>·HCl·2H<sub>2</sub>O  
**Batch Molecular Weight:** 519.96  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows >98.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.13	5.23	18.86
Found	53	5.14	18.93

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

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**Description:**

Potent and selective breast tumor kinase (Brk) inhibitor (IC<sub>50</sub> = 30 nM). Exhibits >650-fold selectivity 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:**

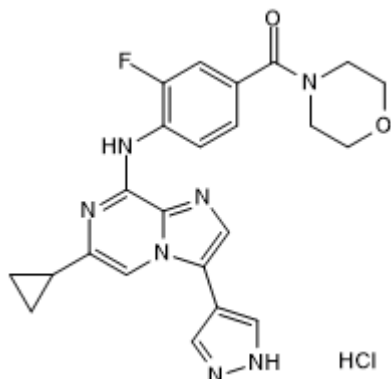
Batch Molecular Formula: C<sub>23</sub>H<sub>22</sub>FN<sub>7</sub>O<sub>2</sub>.HCl.2H<sub>2</sub>O

Batch Molecular Weight: 519.96

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO 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:**

**Ito et al** (2016) PTK6 inhibition suppresses metastases of triple-negative breast cancer via SNAIL-dependent E-cadherin regulation. *Cancer Res.* **76** 4406. PMID: 27302163.

**Zeng et al** (2011) Discovery of novel imidazo[1,2-*a*]pyrazin-8-amines as Brk/PTK6 inhibitors. *Bioorg.Med.Chem.Lett* **21** 5870. PMID: 21855335.

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