

**Product Name:** PP 121

**Catalog No.:** 3894

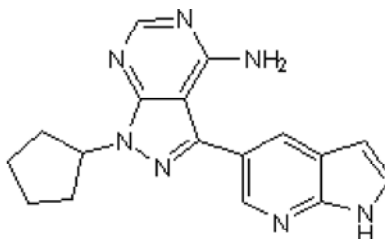
**Batch No.:** 1

CAS Number: 1092788-83-4

IUPAC Name: 1-Cyclopentyl-3-(1*H*-pyrrolo[2,3-*b*]pyridin-5-yl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>17</sub>N<sub>7</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 323.86  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
ethanol to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.4 (Chloroform:Methanol [10:1])  
**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.05	5.45	30.27
Found	63.26	5.21	30.6

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

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**Description:**

PP 121 is a dual inhibitor of receptor tyrosine kinases (RTKs) ( $IC_{50} < 0.02 \mu\text{M}$  for Abl, Src, VEGFR-2 and PDGFR) and PI 3-K family kinases ( $IC_{50} < 0.06 \mu\text{M}$  for p110 $\alpha$ , DNA-PK and mTOR). Exhibits no significant effect on receptor serine/threonine kinases (RSTKs). Blocks the proliferation of tumor cells by direct inhibition of PI 3-K, mTOR, Src and the VEGF receptor.

**Physical and Chemical Properties:**

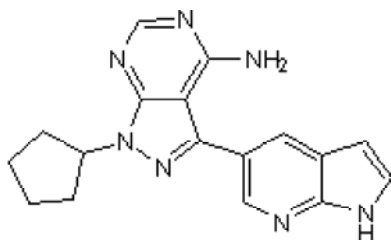
Batch Molecular Formula: C<sub>17</sub>H<sub>17</sub>N<sub>7</sub>· $\frac{1}{4}$ H<sub>2</sub>O

Batch Molecular Weight: 323.86

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Apfel et al** (2008) Targeted polypharmacology: discovery of dual inhibitors of tyrosine and phosphoinositide kinases. *Nat.Chem.Biol.* **4** 691. PMID: 18849971.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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.

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