

## Certificate of Analysis

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**Product Name:** 1-Naphthyl PP1

**Catalog No.:** 3063

**Batch No.:** 3

CAS Number: 221243-82-9

IUPAC Name: 1-(1,1-Dimethylethyl)-3-(1-naphthalenyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>19</sub>N<sub>5</sub>·¼H<sub>2</sub>O

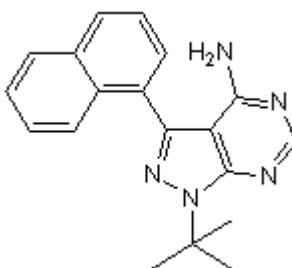
**Batch Molecular Weight:** 321.89

**Physical Appearance:** White solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.5 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows >99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	70.89	6.11	21.76
Found	70.8	5.9	21.76

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

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**Description:**

Selective inhibitor of src family kinases v-Src and c-Fyn as well as the tyrosine kinase c-Abl. (IC<sub>50</sub> values are 1.0, 0.6, 0.6, 18 and 22 μM for v-Src, c-Fyn, c-Abl, CDK2 and CAMK II respectively). Preferentially inhibits mutant over wild-type kinases (IC<sub>50</sub> values are 1.5 vs 1000 nM for I338G v-src and v-src respectively).

**Physical and Chemical Properties:**

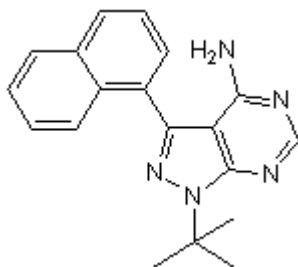
Batch Molecular Formula: C<sub>19</sub>H<sub>19</sub>N<sub>5</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 321.89

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Bishop *et al*** (1999) Generation of monospecific nanomolar tyrosine kinase inhibitors via a chemical genetic approach. *J. Am. Chem. Soc.* **121** 627.

**Bishop *et al*** (2000) A chemical switch for inhibitor-sensitive alleles of any protein kinase. *Nature* **407** 395. PMID: 11014197.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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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