

Product Name: 1-Naphthyl PP1

Catalog No.: 3063

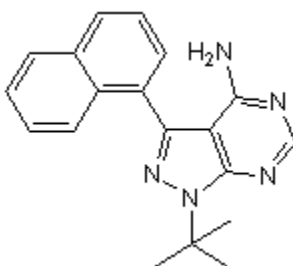
Batch No.: 3

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: C₁₉H₁₉N₅·¼H₂O
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_f = 0.5 (Dichloromethane:Methanol [95:5])
HPLC: Shows >99% purity
¹H 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. (IC₅₀ 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 (IC₅₀ values are 1.5 vs 1000 nM for I338G v-src and v-src respectively).

Physical and Chemical Properties:

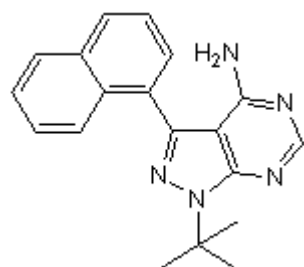
Batch Molecular Formula: C₁₉H₁₉N₅ · ¼ H₂O

Batch Molecular Weight: 321.89

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

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.

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