

Product Name: PP 2

Catalog No.: 1407

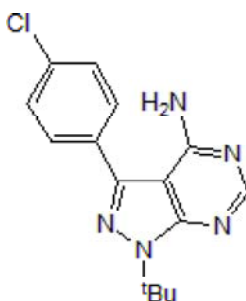
Batch No.: 3

CAS Number: 172889-27-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₆ClN₅
Batch Molecular Weight: 301.78
Physical Appearance: White crystalline powder
Solubility: DMSO to 25 mM with gentle warming
 ethanol to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Dichloromethane:Methanol [98:2])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.7	5.34	23.21
Found	59.67	5.35	23.3

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

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Description:

Selective inhibitor of Src-family tyrosine kinases. Inhibits p56^{lck} and p59^{lyn} (IC₅₀ values are 4 and 5 nM respectively). Displays > 10000-fold selectivity over ZAP-70 and JAK2. Moderately inhibits CSK (IC₅₀ = 0.73 μM). Negative Control also available.

Physical and Chemical Properties:

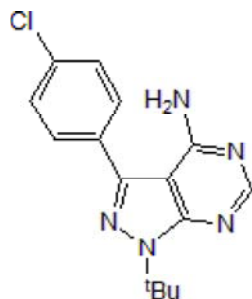
Batch Molecular Formula: C₁₅H₁₆ClN₅

Batch Molecular Weight: 301.78

Physical Appearance: White crystalline powder

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 25 mM with gentle warming
ethanol to 10 mM with gentle warming

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:

Bain et al (2003) The specificities of protein kinase inhibitors: an update. *Biochem.J.* **371** 199. PMID: 12534346.

Sanna et al (2000) A role for Src kinase in spontaneous epileptiform activity in the CA3 region of the hippocampus. *Proc.Natl.Acad.Sci.U.S.A.* **97** 8653. PMID: 10890901.

Lawrence and Niu (1998) Protein kinase inhibitors: the tyrosine-specific protein kinases. *Pharmacol.Ther.* **77** 81. PMID: 9578319.

Hanke et al (1996) Discovery of a novel, potent, and Src family-selective tyrosine kinase inhibitor. *J.Biol.Chem.* **271** 695. PMID: 8557675.

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