

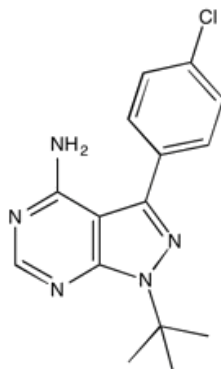
**Catalog # 10-1407**

**PP2**

CAS# 172889-27-9

3-(4-Chlorophenyl)-1-(1,1-dimethylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine

Lot # X101432



Potent and selective Src family kinase inhibitor. Inhibits Lck ( $IC_{50}=4$  nM); Fyn ( $IC_{50}=5$  nM); Hck ( $IC_{50}=5$  nM). It displays weak inhibition of EGFR ( $IC_{50}=480$  nM) and no inhibition of ZAP-70 ( $IC_{50}> 100$   $\mu$ M) and JAK2 ( $IC_{50}> 50$   $\mu$ M)<sup>1</sup>. It is a useful probe for exploring the involvement of Src family kinases in signal transduction pathways<sup>2</sup>.

- 1) Hanke *et al.* (1996), *Discovery of a novel, potent and Src family-selective kinase inhibitor. Study of Lck-and FynT-dependent T cell activation*; J. Biol. Chem., **271** 695
- 2) Yoshizume *et al.* (2000), *Src and Cas mediate JNK activation but not ERK1/2 and p38 kinases by reactive oxygen species*; J. Biol. Chem., **275** 11706

**PHYSICAL DATA**

Molecular Weight:	301.78
Molecular Formula:	C <sub>15</sub> H <sub>16</sub> ClN <sub>5</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 3 mg/ml with warming)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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