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# PP1

## Catalog No: tcsc1662

### Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
172889-26-8

**Formula:**
$C_{16}H_{19}N_5$

**Pathway:**
Protein Tyrosine Kinase/RTK

**Target:**
Src

**Purity / Grade:**
>98%

**Solubility:**
DMSO : 28 mg/mL (99.52 mM; Need ultrasonic)

**Alternative Names:**
AGL 1872;EI 275

**Observed Molecular Weight:**
281.36

## Product Description

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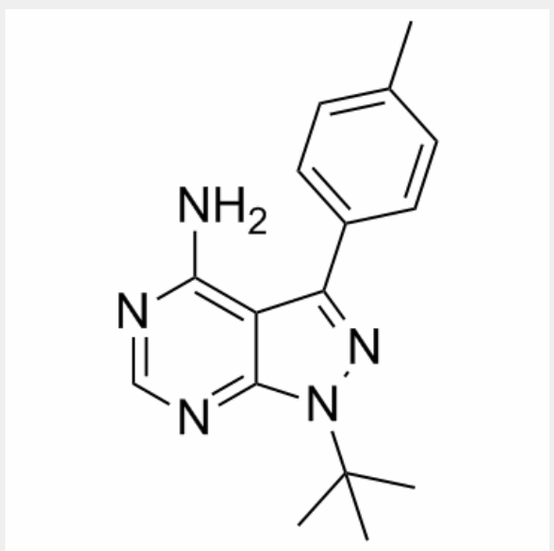
PP1 is a potent, and **Src** family-selective tyrosine kinase inhibitor with **$IC_{50}$** of 5 and 6 nM for Lck and Fyn, respectively.

IC50 & Target: IC50: 5 nM (Lck), 6 nM (Fyn), 250 nM (EGFR), >50 μM (JAK2)[1]

***In Vitro:*** PP1 inhibits Lck ($IC_{50}$=5 nM) and FynT ($IC_{50}$=6 nM) in vitro at concentrations significantly lower than those required to inhibit ZAP-70 ($IC_{50}$>100 μM), JAK2 ($IC_{50}$>50 μM), the EGFR kinase, and protein kinase A. PP1 inhibits whole cell tyrosine phosphorylation and proliferation in T cells stimulated with anti-CD3 and mitogens. PP1 selectively inhibits IL-2 gene expression over GM-CSF and IL-2R gene induction in human T cells[1].

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