Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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].