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

PD-166866

Catalog No: tcsc6407

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
192705-79-6

Formula:
$C_{20}H_{24}N_6O_3$

Pathway:
Protein Tyrosine Kinase/RTK

Target:
FGFR

Purity / Grade:
>98%

Solubility:
DMSO : 10.33 mg/mL (26.06 mM; Need ultrasonic and warming)

Observed Molecular Weight:
396.44

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Product Description

PD166866 is a selective **FGFR1** tyrosine kinase inhibitor with an **IC_{50}** of 52.4 nM.

IC50 & Target: IC50: 52.4 nM (hFGFR1 tyrosine kinase)[1]

In Vitro: PD 166866 inhibits human full-length FGFR-1 tyrosine kinase with an IC_{50} value of 52.4 nM and is characterized as an ATP competitive inhibitor of the FGFR-1. PD 166866 is a potent inhibitor of FGFR autophosphorylation in NIH 3T3 cells expressing endogenous FGFR-1 and in L6 cells overexpressing the human FGFR-1 tyrosine kinase. PD 166866 also inhibits bFGF-induced tyrosine phosphorylation of the 44- and 42-kDa (ERK 1/2) mitogen-activated protein kinase isoforms in L6 cells. Daily exposure of PD 166866 to L6 cells at concentrations from 1 to 100 nM results in a concentration-related inhibition of bFGF-stimulated cell growth for 8 consecutive days with an IC_{50} value of 24 nM[1].