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

BS-181

Catalog No: tcsc0490

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1092443-52-1

Formula:
$C_{22}H_{32}N_6$

Pathway:
Cell Cycle/DNA Damage

Target:
CDK

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
380.53

Product Description

BS-181 is a highly selective **CDK7** inhibitor with **IC_{50}** of 21 nM, and > 40-fold selective for CDK7 than CDK1, 2, 4, 5, 6, or 9.

IC50 & Target: IC50: 21 nM (CDK7)[1]

In Vitro:

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BS-181 promotes cell cycle arrest and inhibits cancer cell growth, and growth is inhibited for all cell lines tested, with IC_{50} values ranging from 11.5 to 37 μM. BS-181 inhibits RB phosphorylation at Ser^{795} and Ser^{821} with an apparent IC_{50} of 15 μM, similar to the IC_{50} obtained for P-Ser2 inhibition. BS-181 treatment of MCF-7 cells leads to G1 arrest at and apoptosis[1]. BS-181 inhibits GC cell and normal gastric epithelial RGM-1 cell line growth with inhibitory concentration (IC_{50}) ranging from 17 to 22 μM and 6.5 μM, respectively. BS-181 significantly inhibits cell migration and invasion ability in a dose-dependent manner[2].

In Vivo: BS-181 (5 mg/kg, 10 mg/kg, i.p.) inhibits the growth of MCF-7 tumors in nude mice. Intravenous (i.v) and i.p administration of 10 mg/kg BS-181 shows rapid clearance[1]. BS-181 (10 mg/kg/d or 20 mg/kg/d, i.p.) significantly inhibits the growth of tumor in a dose-dependent manner compared to the control group[2].