



PHA-767491

Catalog No: tcsc1208

Available Sizes		
Size: 10mg		
Size: 50mg		
Specifications		
CAS No: 845714-00-3		
Formula: C ₁₂ H ₁₁ N ₃ O		
Pathway: Cell Cycle/DNA Damage		
Target: CDK		
Purity / Grade: >98%		
Solubility: 10 mM in DMSO		
Alternative Names:		

Product Description

Observed Molecular Weight:

CAY10572

213.24

PHA-767491 is a dual Cdc7/Cdk9 inhibitor, with IC_{50} s of 10 nM and 34 nM, respectively.





IC50 & Target: IC50: 10 nM (Cdc7), 34 nM (Cdk9) $^{[1][4]}$, 240 nM (Cdk2), 250 nM (Cdk1), 460 nM (Cdk5), 220 nM (GSK3- β) $^{[4]}$

In Vitro: PHA-767491 inhibits proliferation in both cell lines with an IC $_{50}$ of 0.64 μ M in HCC1954 cells and 1.3 μ M in Colo-205 cells. PHA-767491 is effective DDK inhibitors in vitro, with IC $_{50}$ values of 18.6 nM. PHA-767491 (2 μ M) completely abolishes Mcm2 phosphorylation by 24 hours in HCC1954 cells^[1]. PHA-767491 in combination with 5-FU exhibits much stronger cytotoxicity and induces significant apoptosis manifested by remarkably increased caspase 3 activation and poly(ADP-Ribose) polymerase fragmentation in HCC cells. PHA-767491 directly counteracts the 5-FU-induced phosphorylation of Chk1 and decreases the expression of the anti-apoptotic protein myeloid leukemia cell $1ine^{[2]}$. PHA-767491 (0-10 μ M) decreases glioblastoma cell viability in a time- and dose-dependent fashion, with IC $_{50}$ of approximately 2.5 μ M for U87-MG and U251-MG cells. PHA-767491 hydrochloride induces apoptosis in glioblastoma cells, suppresses glioblastoma cell proliferation, cell migration and cell invasion^[3].

In Vivo: PHA-767491 decreases Chk1 phosphorylation and increases in situ cell apoptosis in tumor tissues sectioned from nude mice HCC xenografts^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!