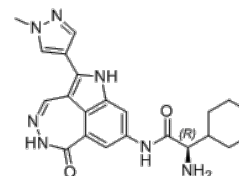


Product Name : PF-00477736
Cat. No. : PC-35602
CAS No. : 952021-60-2
Molecular Formula : C₂₂H₂₅N₇O₂
Molecular Weight : 419.489
Target : Checkpoint Kinase (Chk)
Solubility : 10 mM in DMSO



Biological Activity

PF-00477736 (PF-477736) is a potent, selective, ATP-competitive inhibitor of **Chk1** with K_i of 0.49 nM, also inhibits Chk2 (K_i =47 nM) and poorly inhibits CDK1 activity (K_i =9.9 μ M).

PF-00477736 displays <100-fold selectivity over VEGFR2, Aurora-A, FGFR3, Flt3, Fms (CSF1R), Ret, and Yes in a panel of >100 protein kinases.

PF-00477736 abrogates cell cycle arrest induced by DNA damage and enhances cytotoxicity of clinically important chemotherapeutic agents, including gemcitabine and carboplatin; enhances the antitumor activity of gemcitabine in a dose-dependent manner in xenografts.

References

Blasina A, et al. *Mol Cancer Ther.* 2008 Aug;7(8):2394-404.

Zhang C, et al. *Clin Cancer Res.* 2009 Jul 15;15(14):4630-40.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com