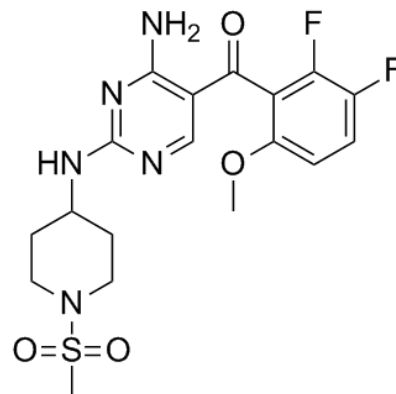


Product Name : R547
Cat. No. : PC-42067
CAS No. : 741713-40-6
Molecular Formula : C₁₈H₂₁F₂N₅O₄S
Molecular Weight : 441.4522
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

R547 is a potent, selective and ATP-competitive **CDK** inhibitor with K_i of 1/3/1 nM for **CDK1/2/4**, respectively.

R547 has no activity against a large panel of serine/threonine and tyrosine kinases.

R547 inhibits the growth of various human tumor cell lines (HCT116 cell line IC₅₀=80 nM), blocks G1 and G2 phases, induces apoptosis and reduces phosphorylation of Rb.

R547 demonstrates significant in vivo efficacy in the HCT116 human colorectal tumor xenograft model in nude mice.

References

Chu XJ, et al. *J Med Chem*. 2006 Nov 2;49(22):6549-60.

DePinto W, et al. *Mol Cancer Ther*. 2006 Nov;5(11):2644-58.

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

E-mail: tech@probechem.com