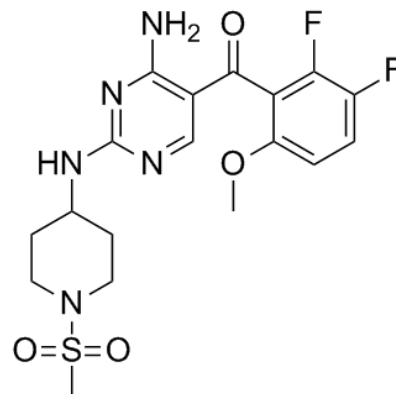


Product Name : R-547
Cat. No. : PC-42067
CAS No. : 741713-40-6
Molecular Formula : C₁₈H₂₁F₂N₅O₄S
Molecular Weight : 441.4522
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

A potent, selective and ATP-competitive CDK inhibitor with K_i of 1/3/1 nM for CDK1/2/4, respectively; has no activity against a large panel of serine/threonine and tyrosine kinases; 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; demonstrates significant in vivo efficacy in the HCT116 human colorectal tumor xenograft model in nude mice.

Solid Tumors

Phase 1 Discontinued

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