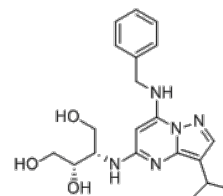

Product Name	: BS-194
Cat. No.	: PC-61917
CAS No.	: 1092443-55-4
Molecular Formula	: C ₂₀ H ₂₇ N ₅ O ₃
Molecular Weight	: 385.468
Target	: Cyclin-dependent Kinase (CDK)
Solubility	: 10 mM in DMSO



Biological Activity

BS-194 (BS194) is a potent, selective, orally bioactive **CDK2** inhibitor with IC₅₀ of 2.4 nM, displays 140-fold selectivity over CDK7 (IC₅₀=378 nM).

BS-194 weakly inhibits CDK1, CDK5, CDK7, and CDK9 with IC₅₀ of 30, 30, 250, and 90 nM.

BS-194 shows inhibition of the phosphorylation of CDK substrates, Rb and the RNA polymerase II C-terminal domain, down-regulation of cyclins A, E, and D1, and cell cycle block in the S and G₂/M phases.

BS-194 inhibits human tumor xenografts and suppresses CDK substrate phosphorylation.

References

Hazel P, et al. *ChemMedChem*. 2017 Mar 7;12(5):372-380.

Tripathi SK, et al. *J Mol Recognit*. 2012 Oct;25(10):504-12.

Heathcote DA, et al. *J Med Chem*. 2010 Dec 23;53(24):8508-22.

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

E-mail: tech@probechem.com
