

Product Name : BS-194

Synonyms : BS 194;BS194

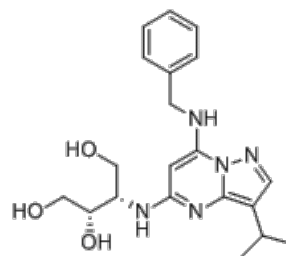
Cat No. : M10349

CAS Number : 1092443-55-4

Molecular Formula : C₂₀H₂₇N₅O₃

Formula Weight : 385.47

Chemical Name : (2S,3S)-3-[[7-(benzylamino)-3-propan-2-ylpyrazolo[1,5-a]pyrimidin-5-yl]amino]butane-1,2,4-triol



Description : BS-194 is a potent, selective, orally bioactive CDK2 inhibitor with IC₅₀ of 2.4 nM, displays 140-fold selectivity over CDK7 (IC₅₀=378 nM); weakly inhibits CDK1, CDK5, CDK7, and CDK9 with IC₅₀ of 30, 30, 250, and 90 nM; 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; inhibits human tumor xenografts and suppresses CDK substrate phosphorylation.

Pathway : Angiogenesis

Target : CDK

Receptor : CDK

Solubility : —

SMILES : OC[C@@H](O)[C@@H](O)(NC1=NC2=C(C(C)C)C=NN2C(NCC3=CC=CC=C3)=C1)CO

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Hazel P, et al. ChemMedChem. 2017 Mar 7;12(5):372-380. | 2. Tripathi SK, et al. J Mol Recognit. 2012 Oct;25(10):504-12. | 3. Heathcote DA, et al. J Med Chem. 2010 Dec 23;53(24):8508-22.