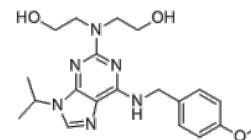


Product Name : CVT-313
Cat. No. : PC-21886
CAS No. : 199986-75-9
Molecular Formula : C₂₀H₂₈N₆O₃
Molecular Weight : 400.48
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

CVT-313 (CVT313) is a potent, specific CDK2 inhibitor with IC₅₀ of 0.5 μM (CDK2/cyclin A), equally inhibits CDK2/cyclin E. CVT-313 displays 8.5-fold and 430-fold selectivity over CDK1 and CDK4, 2500-fold over mitogen-activated protein kinase and protein kinase A, and PKC.

CVT-313 inhibits cell proliferation at the G₁/S or G₂/M boundary (Caco-2 cell, IC₅₀=4.5 μM).

CVT-313 inhibits Rb phosphorylation, inhibits neointima formation in rat carotid artery model of restenosis.

References

Bhattacharjee RN, et al. Mol Cell Biol. 2001 Aug;21(16):5417-25.

Brooks EE, et al. J Biol Chem. 1997 Nov 14;272(46):29207-11.

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

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