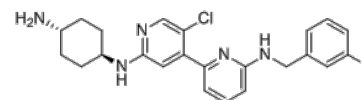


Product Name : iCDK9
Cat. No. : PC-35631
CAS No. : 1263369-28-3
Molecular Formula : C₂₃H₂₅ClFN₅
Molecular Weight : 425.936
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

iCDK9 (i-CDK9, CDK9-IN-2) is a potent, highly selective **CDK9** inhibitor (IC₅₀ < 0.4 nM, CDK9-CycT1 kinase), exhibits >600-fold selectivity toward CDK1-CycB, CDK2-CycA, CDK4-CycD1, CDK7-CycH-MAT1 and CDK8-CycC.

iCDK9 potently suppresses CDK9 phosphorylation of substrates and causes genome-wide Pol II pausing.

iCDK9 efficiently suppresses P-TEFb's phosphorylation of the Pol II CTD and the DSIF subunit SPT5 and causes widespread Pol II pausing at gene promoters, enhances the MYC mRNA production but not protein stability.

References

Lu H, et al. *Elife*. 2015 Jun 17;4:e06535. doi: 10.7554/eLife.06535.

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

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