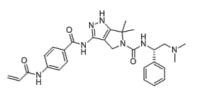


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	YKL-5-124
Cat. No.	:	PC-36145
CAS No.	:	1957203-01-8
Molecular Formula	:	C ₂₈ H ₃₃ N ₇ O ₃
Molecular Weight	:	515.618
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

YKL-5-124 is a novel potent, selective, and covalent **CDK7** inhibitor (IC50=53.5 nM), inhibits CDK7/CycH/MAT1 enzymatic activity with IC50 of 9.7 nM.

YKL-5-124 displays biochemical and cellular selectivity for CDK7 over structurally related kinases CDK12/13, and no significant activity against CDK2 and CDK9 (IC50>1 uM).

YKL-5-124 targets and forms a covalent bond with CDK7- cysteine 312 (C312).

Inhibition of CDK7 by YKL-5-124 elicits a transcriptional signature distinct from that of THZ1, shows no discernible effect on RNA Pol II CTD phosphorylation.

YKL-5-124 recapitulate THZ1-mediated effects on gene expression and CTD phosphorylation when combined with CDK12/13 inhibitor THZ531.

References

Olson CM, et al. Cell Chem Biol. 2019 Mar 6. pii: S2451-9456(19)30067-4.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com