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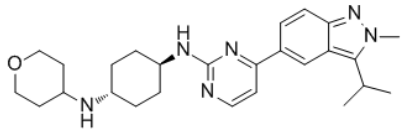
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	LY2857785
Cat. No.	:	PC-42956
CAS No.	:	1619903-54-6
Molecular Formula	:	$C_{26}H_{36}N_6O$
Molecular Weight	:	448.6036
Target	:	Cyclin-dependent Kinase (CDK)
Solubility	:	10 mM in DMSO



Biological Activity

LY2857785 is a potenrt, reversible and ATP-competitive **CDK9** inhibitor with IC50 of 11 nM, also inhibits **CDK8** (IC50=16 nM) and weakly inhibits CDK7 (IC50=246 nM).
LY2857785 showes good selectivity against a panel of 114 protein kinases.
LY2857785 inhibits RNAP II C-terminal domain (CTD) P-Ser2 and CTD P-Ser5 in U2OS cells with IC50 of 89 and 42 nM, dramatically decreases MCL1 protein levels to result in apoptosis in a variety of leukemia and solid tumor cell lines (MV-4-11 cell IC50=40 nM).
LY2857785 inhibits RNAP II CTD P-Ser2 in vivo, demonstrates potent antitumor growth efficacy in tumor xenografts.

References

Yin T, et al. ***Mol Cancer Ther.*** 2014 Jun;13(6):1442-56.

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

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