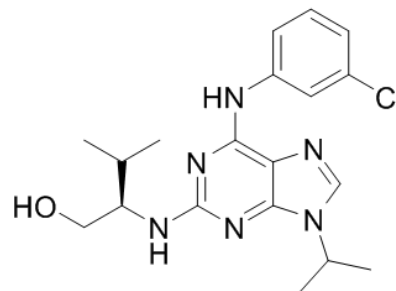


**Product Name** : Purvalanol A  
**Cat. No.** : PC-45447  
**CAS No.** : 212844-53-6  
**Molecular Formula** : C<sub>19</sub>H<sub>25</sub>ClN<sub>6</sub>O  
**Molecular Weight** : 388.8944  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

A potent, cell-permeable, selective inhibitor of CDK with IC<sub>50</sub>s of 4, 70, 35, 850, and 75 nM for cdc2/cyclin B, Cdk2/cyclin A, Cdk2/cyclin E, Cdk4/cyclin D1 and Cdk5-p35, respectively; also inhibits *Saccharomyces cerevisiae* Cdc28p (IC<sub>50</sub>=80 nM) and has no effect on PKC, Raf, CK1, CK2.

## References

- Gray NS, et al. *Science*. 1998 Jul 24;281(5376):533-8.  
Chadebech P, et al. *Int J Cancer*. 2000 Sep 15;87(6):779-86.  
Obakan P, et al. *Mol Biol Rep*. 2014 Jan;41(1):145-54.

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

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