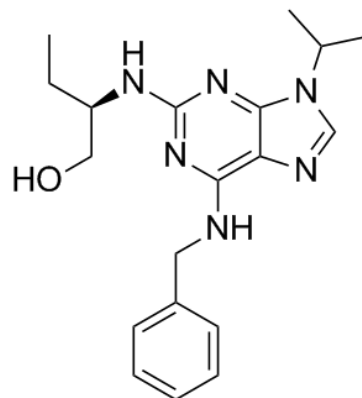


**Product Name** : Roscovitine  
**Cat. No.** : PC-45792  
**CAS No.** : 186692-46-6  
**Molecular Formula** : C<sub>19</sub>H<sub>26</sub>N<sub>6</sub>O  
**Molecular Weight** : 354.4493  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



### Biological Activity

Roscovitine ((R)-Roscovitine, Seliciclib, CYC202) is a potent and selective **CDK** inhibitor with IC<sub>50</sub> of 0.2 uM, 0.65 uM, and 0.7 uM for CDK5, Cdc2, and CDK2, respectively.

Roscovitine weakly inhibits ERK1 and ERK2 (IC<sub>50</sub>=34 uM and 14 uM), poorly inhibits CDK4/cyclin D1 and CDK6/cyclin D2 (IC<sub>50</sub>>100 uM).

Roscovitine suppresses the proliferation of mammalian cell lines with an average IC<sub>50</sub> of 16 uM.

Roscovitine significantly inhibits growth of The Ewing's sarcoma family of tumors (ESFT) xenografts.

### References

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Tirado OM, et al. *Cancer Res*, 2005, 65(20), 9320-9327.

Mgbonyebi OP, et al. *Cancer Res*. 1999 Apr 15;59(8):1903-10.

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

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