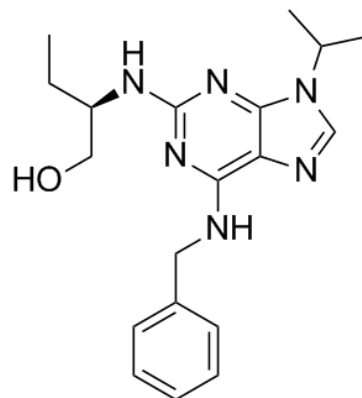


Product Name : Roscovitine
Cat. No. : PC-45792
CAS No. : 186692-46-6
Molecular Formula : C₁₉H₂₆N₆O
Molecular Weight : 354.4493
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

A potent and selective CDK inhibitor with IC₅₀ of 0.2 μM, 0.65 μM, and 0.7 μM for CDK5, Cdc2, and CDK2, respectively; weakly inhibits ERK1 and ERK2 (IC₅₀=34 μM and 14 μM), poorly inhibits CDK4/cyclin D1 and CDK6/cyclin D2 (IC₅₀>100 μM); suppresses the proliferation of mammalian cell lines with an average IC₅₀ of 16 μM; significantly inhibits growth of The Ewing's sarcoma family of tumors (ESFT) xenografts.

Lung Cancer
Phase 2 Clinical

References

- Meijer L, et al. Eur J Biochem. 1997 Jan 15;243(1-2):527-36.
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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