

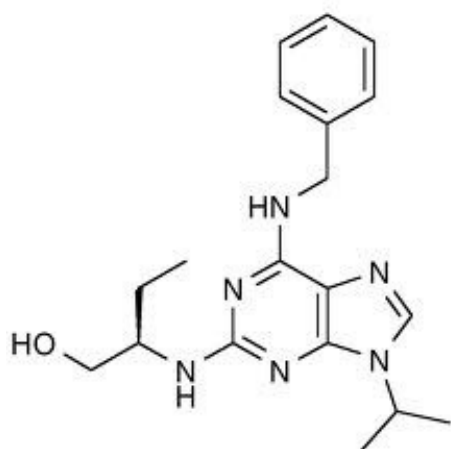
Cat No. 34-K14

Roscovitin

1mg

Roscovitin, also known as Seliciclib or CYC202, is a potent and reversible inhibitor of select cyclin-dependent kinases (CDKs), CDK1, CDK2, and CDK5. It has less sensitivity towards related kinases including ERK1,2. This molecule competes for the binding site of ATP in the catalytic cleft. Treatment of cultured cells with roscovitin can cause cell cycle arrest or apoptosis.

TECHNICAL INFORMATION



Other Names: 6-Benzylamino-2[(R)-(1'-ethyl-2'-hydroxyethylamino)]-9-isopropylpurine

Chemical Formula: C₁₉H₂₆N₆O

CAS Number: 186692-46-6

PubChem Substance ID: 160355

Molecular Weight: 354.45

Purity: >99%

Appearance: Crystalline solid

Solubility: DMSO

IC₅₀ : CDK2: .1μm, CDK5: .16μm



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO.

REFERENCES

1. Adler, M., et al (2012). Reversal of BoNT/A-mediated inhibition of muscle paralysis by 3, 4-diaminopyridine and Roscovitin in mouse phrenic nerve-hemidiaphragm preparations. *Neurochem Int.* 10:1016.
2. Molinsky, J., et al (2012). Roscovitin sensitizes leukemia and lymphoma cells to TRAIL-induced apoptosis. *Leuk Lymphoma.* 10:3109.
3. Hoogendijk, A.J., et al (2012). R-Roscovitin reduces lung inflammation induced by lipoteichoic acid and streptococcus pneumonia. *Mole Med.* 10:2119.