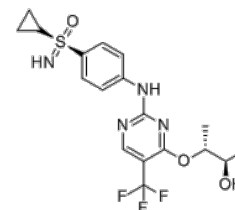

Product Name	: Roniciclib
Cat. No.	: PC-61246
CAS No.	: 1223498-69-8
Molecular Formula	: C ₁₈ H ₂₁ F ₃ N ₄ O ₃ S
Molecular Weight	: 430.44
Target	: Cyclin-dependent Kinase (CDK)
Solubility	: 10 mM in DMSO



Biological Activity

Roniciclib (BAY 1000394) is a potent, orally active, **pan-CDK** inhibitor with IC₅₀ of 7/9/11 nM for CDK1/2/4 respectively, inhibits transcriptional CDK9/7 with IC₅₀ of 5-25 nM.

BAY1000394 inhibits 16 additional kinase in a panel of 214 non-CDK Ser/Thr and Tyr kinases.

BAY1000394 simultaneously inhibits cell-cycle progression and RNA polymerase II-mediated gene transcription, shows broad and uniform inhibitory activity on cell proliferation with IC₅₀ of 8-33 nM.

BAY1000394 potently inhibits growth of various human tumor xenografts.

References

Siemeister G, et al. *Mol Cancer Ther.* 2012 Oct;11(10):2265-73.

Lücking U, et al. *ChemMedChem.* 2013 Jul;8(7):1067-85.

Ayaz P, et al. *ACS Chem Biol.* 2016 Jun 17;11(6):1710-9.

Bahleda R, et al. *Br J Cancer.* 2017 Jun 6;116(12):1505-1512.

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

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