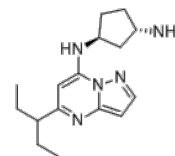


Product Name : KB-0742
Cat. No. : PC-38278
CAS No. : 2416873-83-9
Molecular Formula : C₁₆H₂₅N₅
Molecular Weight : 287.411
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

KB-0742 (KB0742) is a potent, orally bioavailable, selective **CDK9** inhibitor with IC₅₀ of 6 nM (CDK9/cyclin T1 inhibition). KB-0742 displays >60-fold selectivity over CDK2/12/13, and >200-fold over other CDKs. KB-0742 rapidly downregulates nascent transcription, preferentially depleting short half-life transcripts and AR-driven oncogenic programs. Oral administration of KB-0742 significantly reduced tumor growth in CRPC models.

References

André Richters, et al. *Cell Chem Biol.* 2021 Feb 18;28(2):134-147.e14.

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

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