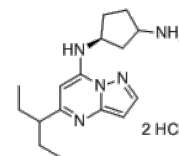


**Product Name** : KB-0742 dihydrochloride  
**Cat. No.** : PC-49485  
**CAS No.** : 2416874-75-2  
**Molecular Formula** : C<sub>16</sub>H<sub>26</sub>ClN<sub>5</sub>  
**Molecular Weight** : 323.87  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

KB-0742 (KB0742) is a potent, orally bioavailable, selective **CDK9** inhibitor with IC<sub>50</sub> 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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