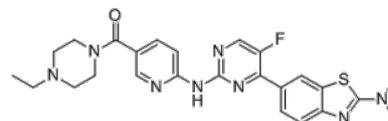


Product Name : YK-2-69
Cat. No. : PC-38751
CAS No. : 2619846-89-6
Molecular Formula : C₂₅H₂₇FN₈OS
Molecular Weight : 506.604
Target : DYRK
Solubility : 10 mM in DMSO



Biological Activity

YK-2-69 is a potent, highly selective inhibitor of dual-specificity tyrosine phosphorylation-regulated kinase 2 (**DYRK2**) with IC₅₀ value of 9 nM, shows weak inhibition against DYRK1B (IC₅₀=542 nM) and no activity against DYRK1A/3/4 (IC₅₀>1,000 nM).

YK-2-69 specifically interacts with Lys-231 and Lys-234 of DYRK2.

YK-2-69 remarkably reduces PCa burden in vitro and in vivo.

YK-2-69 exhibits more potent anti-PCa efficacy than the first-line drug enzalutamide in vivo.

YK-2-69 displays favorable safety properties with a maximal tolerable dose of more than 10,000 mg/kg and pharmacokinetic profiles with 56% bioavailability.

References

Yuan K, et al. *Nat Commun*. 2022 May 25;13(1):2903.

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

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