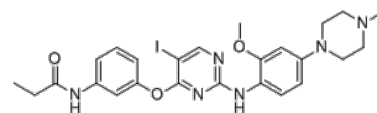


Product Name : HTH-02-006
Cat. No. : PC-73284
CAS No. :
Molecular Formula : C₂₅H₂₉IN₆O₃
Molecular Weight : 588.450
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

HTH-02-006 is a potent, selective reversible inhibitor of **NUAK1/2** with binding IC₅₀ of 8/126 nM, respectively. HTH-02-006 reduces MYPT1(S445) phosphorylation in HuCCT-1 cells, suggesting NUAK1/2 inhibition. HTH-02-006 ameliorates YAP(S127A)-induced hepatomegaly, and reduces MYPT1(S445) phosphorylation. HTH-02-006 delays the outgrowth of YAP-induced HuCCT-1 xenograft tumors in nude mice. HTH-02-006 downregulated E2F, EMT, and MYC hallmark gene sets after NUAK2 inhibition in PC cells. HTH-02-006 slowed tumor growth and proliferation rates in a syngeneic allograft model and in radical prostatectomy patient derived explants. HTH-02-006 treatment led to inactivation of YAP and the downregulation of NUAK2 and MYC protein levels.

References

Weiwei Fu, et al. *Mol Carcinog.* 2022 Mar;61(3):334-345.

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

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