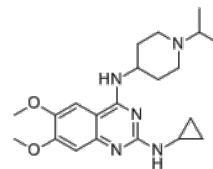


Product Name : ZT-12-037-01
Cat. No. : PC-36062
CAS No. :
Molecular Formula : C₂₁H₃₁N₅O₂
Molecular Weight : 385.512
Target : Ras
Solubility :



Biological Activity

ZT-12-037-01 is a potent, selective, ATP-competitive **STK19** inhibitor with IC₅₀ of 20.04 nM measured as percentage of NRAS phosphorylation; shows similar IC₅₀ of 23.96 and 27.94 nM for STK19WTWT STK19D89N respectively; displays extremely high kinase selectivity using KINOMEScan against a panel of 468 diverse kinases using an in vitro ATP-site competition binding assay at 1 μM; efficiently inhibits phosphorylation of NRAS in a dose- and time-dependent manner, inhibits NRAS activity in a dose-dependent manner but does not affect the levels of H3K9 methylation; effectively inhibits NRAS signaling, including the MEK-ERK and PI3K pathways in SK-MEL-2 and WM2032 cells (with NRASQ61R), but the inhibition was much less effective in A375 or UACC62 cells (with NRASWT), effectively inhibits cell growth and induces apoptosis of SK-MEL-2 and WM2032 melanoma cells.

References

Yin C, et al. **Cell**. 2019 Jan 24. pii: S0092-8674(19)30035-2. doi: 10.1016/j.cell.2019.01.002.

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

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