

Product Datasheet

ZT-12-037-01 orb611995

Description	ZT-12-037-01 is a potent, selective, ATP-competitive STK19 inhibitor with IC ₅₀ of 20.04 nM measured as percentage of NRAS phosphorylation; shows similar IC ₅₀ 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 μ M; 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.
Note	For research use only.
Formula	C ₂₁ H ₃₁ N ₅ O ₂
MW	385.512
CAS Number	[2328073-61-4]
SMILES	<chem>COC1=CC2=NC(NC3CC3)=NC(NC4CCN(C(C)C)CC4)=C2C=C1OC</chem>
Expiration Date	12 months from date of receipt.