

Biorbyt Ltd. 5 Orwell Furlong, Cowley Road, Cambridge CB4 0WY, United Kingdom Email: info@biorbyt.com Phone: +44 (0)1223 859 353 | Fax: +44 (0)1223 280 240 Biorbyt LLC. 369 Pine Street, Suite #103, San Francisco California, 94104, United States Email: info@biorbyt.com Phone: +1 (415) 906 5211 | Fax: +1 (415) 651 8558

Product Datasheet

ZT-12-037-01 orb611995

Description	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 uM; 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	COC1=CC2=NC(NC3CC3)=NC(NC4CCN(C(C)C)CC4)=C2C=C1OC
Expiration Date	12 months from date of receipt.