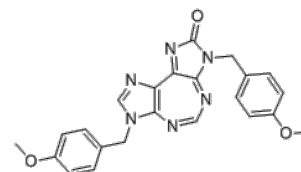


Product Name : RK-33
Cat. No. : PC-61320
CAS No. : 1070773-09-9
Molecular Formula : C₂₃H₂₀N₆O₃
Molecular Weight : 428.44
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

RK-33 is a first-in-class small molecule inhibitor of **RNA helicase DDX3**, binds specifically to DDX3, but not to the closely related proteins DDX5 and DDX17.

RK-33 causes G1 cell cycle arrest, induces apoptosis, and promotes radiation sensitization in DDX3-overexpressing cells.

RK-33 exhibits growth inhibitory properties against NCI-60 panel of cell lines with GI50 of <1 uM-7 uM.

RK-33 inhibits Wnt signaling mediated by DDX3, and promotes tumor regression in preclinical models of DDX3-overexpressing lung cancer in combination with radiation.

References

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Heerma van Voss MR, et al. *Oncotarget*. 2015 Sep 29;6(29):28312-26.

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

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