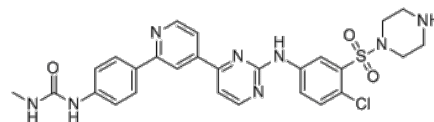


Product Name : KVS0001
Cat. No. : PC-21705
CAS No. : 3056394-59-0
Molecular Formula : C₂₇H₂₇ClN₈O₃S
Molecular Weight : 579.08
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

KVS0001 is a specific and bioavailable small molecule inhibitor of **SMG1 kinase**, disrupts nonsense mediated decay (NMD). KVS0001 is highly selective against the other 246 protein or lipid kinases up to 1 uM.

KVS0001 substantially decreases the amount of phosphorylated UPF1, the downstream target of SMG1 kinase activity in NCI-H358 and LS180 cells.

KVS0001 causes MHC class I display of hidden neoantigens, increases the expression of TP53 in cancer cell lines, NCI-H716 and NCI-H2228.

KVS0001 (30 mg/kg) impacts tumor growth in syngeneic models.

KVS0001 elevates the expression of transcripts and proteins resulting from truncating mutations in vivo and in vitro.

References

Ashley L Cook, et al. *bioRxiv*. 2023 Dec 29:2023.12.28.573594.

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

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