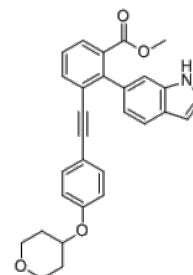


Product Name : VK-1727
Cat. No. : PC-36124
CAS No. :
Molecular Formula : C₂₉H₂₅NO₄
Molecular Weight : 451.522
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

VK-1727 (VK1727) is a small-molecule inhibitor of the DNA binding activity of **EBNA1** (Epstein-Barr nuclear antigen1). VK-1727 selectively inhibits proliferation of EBV-positive cells (C666-1 CC₅₀=6.3 uM) but not similarly growing EBV-negative cells.

VK-1727 potently inhibits EBNA1-dependent OriP DNA replication without effect on EBNA1 protein expression in EBV-positive NPC cell line, C666-1.

VK-1727 significantly blocks EBV-positive tumor growth in vivo (10 mg/kg, intraperitoneally, TGI=88.3%), block EBV gene transcription and alter the cellular TGF-β signaling pathway in NPC tumor xenografts.

References

Messick TE, et al. *Sci Transl Med*. 2019 Mar 6;11(482). pii: eaau5612. doi: 10.1126/scitranslmed.aau5612.

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

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