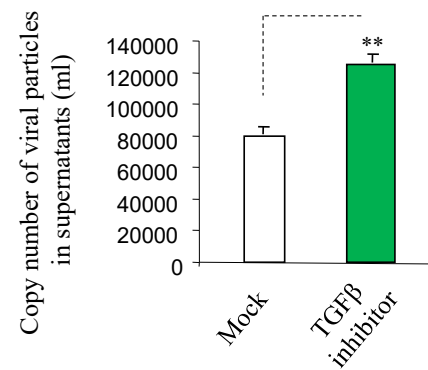
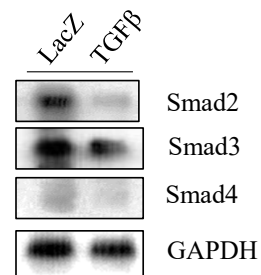


Citation: Wang X, Hewlett I. TGF- β Suppresses HIV-1 Reactivation in U1 Cells by Reducing NFAT, Sp1, and TF Levels while Enhancing Bcl-xL. *J Cell Signal.* 2026;7(2):73–83.



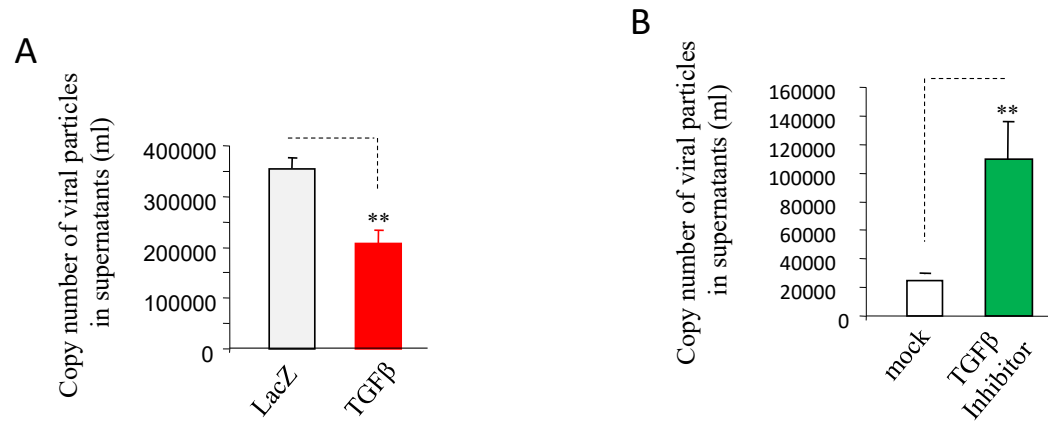
Supplementary Figure 1. TGF- β inhibition reactivates HIV-1 replication from latency. U1 cells were incubated in medium containing 10 μ M of Galunisertib or DMSO as controls (Mock) for 7 days. A total of 140 μ l of culture supernatants containing HIV-1 particles was used to isolate viral RNA for RT-PCR analysis to assess viral replication. TGF- β inhibitor increased HIV-1 RNA production, suggesting that inhibition of TGF- β enhances HIV-1 replication, thereby reducing latency.

Citation: Wang X, Hewlett I. TGF- β Suppresses HIV-1 Reactivation in U1 Cells by Reducing NFAT, Sp1, and TF Levels while Enhancing Bcl-xL. *J Cell Signal.* 2026;7(2):73–83.



Supplementary Figure 2. TGF- β expression downregulates Smad(s) in U1 cells. U1 cells were infected with an adenovirus carrying either the LacZ or TGF- β gene and incubated for 7 days. Total cell lysates were then subjected to Western blot analysis to detect Smad2, Smad3, and Smad4. TGF- β expression reduced the levels of Smad2, Smad3, and Smad4, suggesting that TGF- β inhibits the reactivation of HIV-1 replication from latency through Smad-independent signaling pathways

Citation: Wang X, Hewlett I. *TGF- β Suppresses HIV-1 Reactivation in U1 Cells by Reducing NFAT, Sp1, and TF Levels while Enhancing Bcl-xL.* *J Cell Signal.* 2026;7(2):73–83.



Supplementary Figure 3. The effects of TGF- β on HIV-1 latent infection in ACH2 cells.

- (A) ACH2 cells were infected with an adenovirus carrying the LacZ or TGF- β gene and incubated for 7 days. A total of 140 μ l of culture supernatants containing HIV-1 particles was used to isolate viral RNA for RT-PCR analysis to assess viral replication. TGF- β expression inhibited HIV-1 RNA production compared to the LacZ control, suggesting that TGF- β suppresses HIV-1 replication, thereby promoting HIV-1 latency.
- (B) ACH2 cells were incubated in medium containing 10 μ M of Galunisertib (LY2157299) or DMSO as controls (Mock) for 7 days. A total of 140 μ l of culture supernatants containing HIV-1 particles was used to isolate viral RNA for RT-PCR analysis to assess viral replication. TGF- β inhibitor increased HIV-1 RNA production, suggesting that inhibition of TGF- β enhances HIV-1 replication, thereby reducing latency.