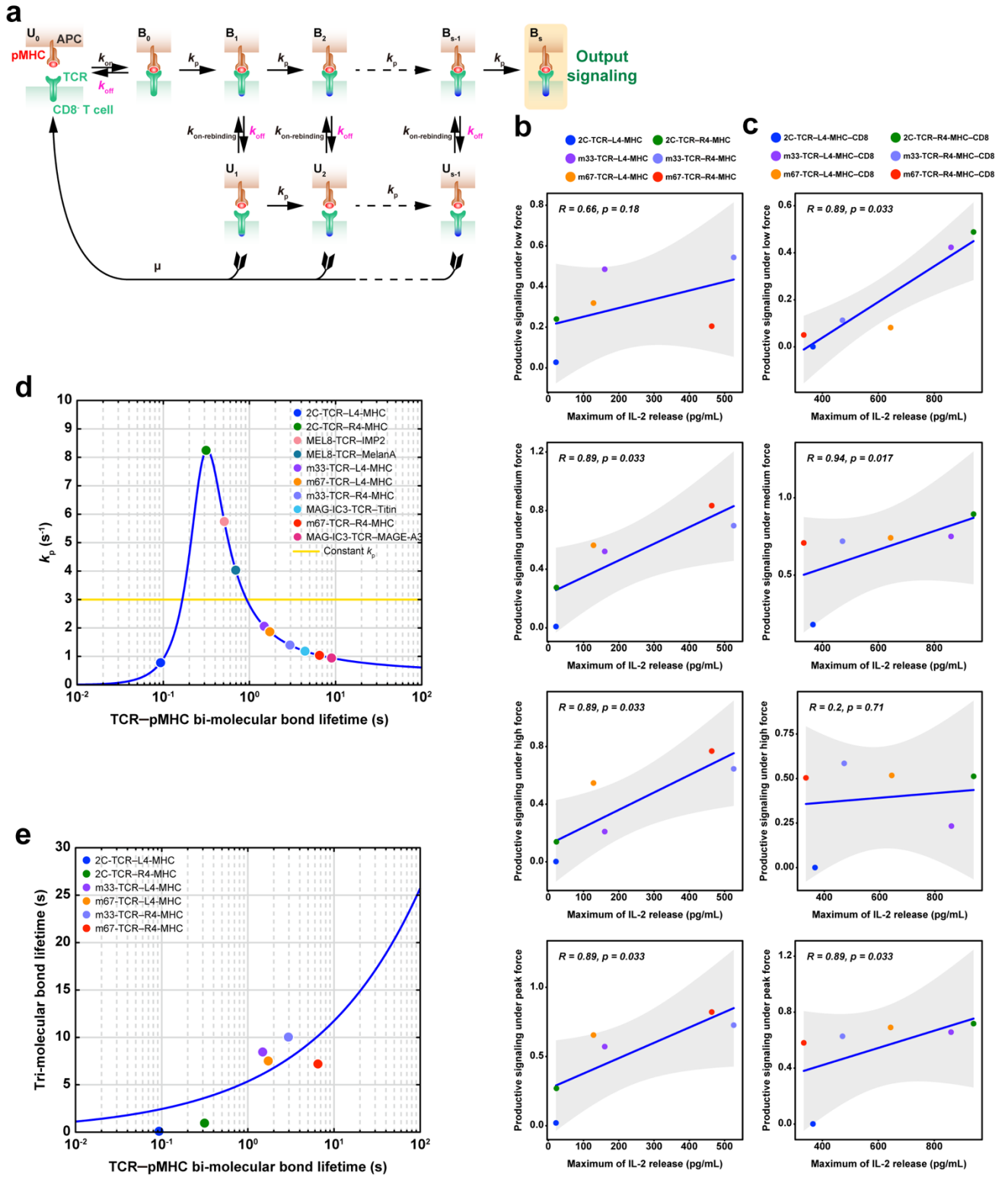




concentration at a magnitude of 10^{-4} M in the absence (**b**) or presence (**c**) of CD8. **d** The forward rate (k_p) of force-dependent KPR model, in the presence of CD8, fluctuates in accordance with the bond lifetimes of TCR–pMHC bi-molecules. **e** The tri-molecular bond lifetimes in the medium force regime varies with the bond lifetimes of TCR–pMHC bi-molecular complexes in the medium force regime.