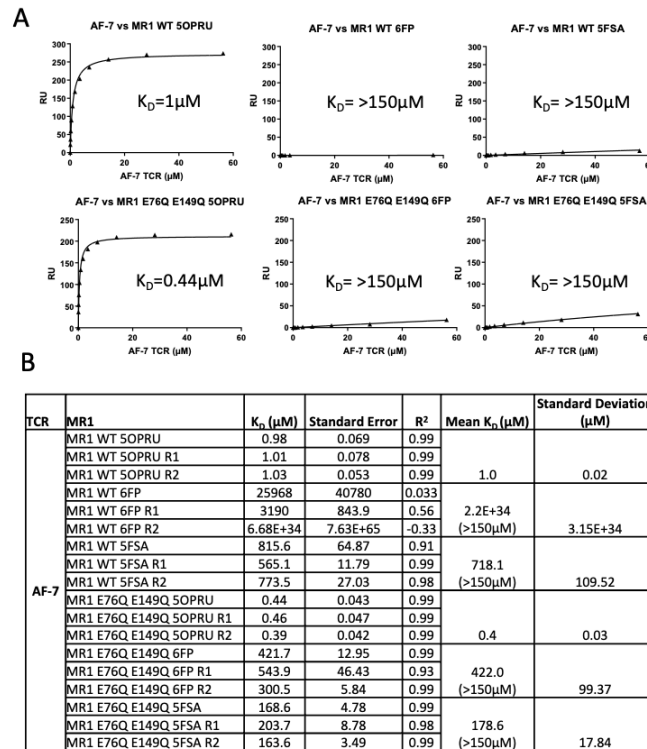
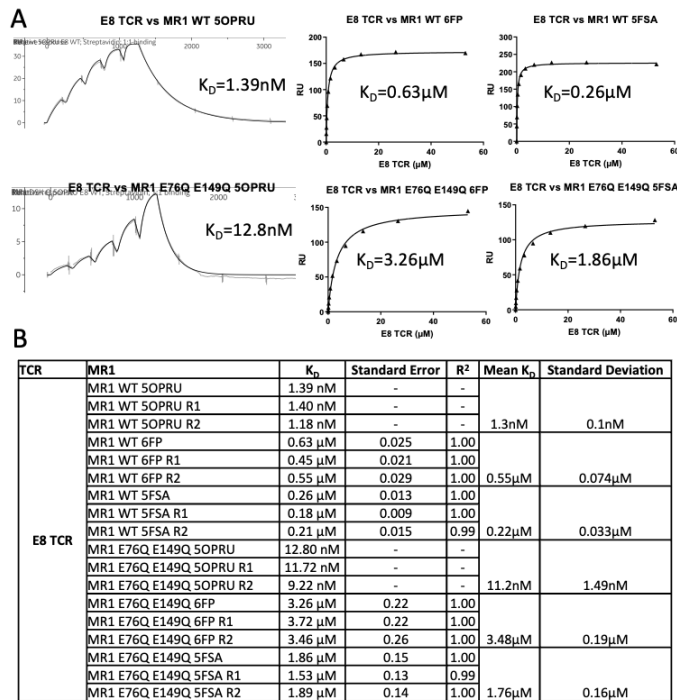


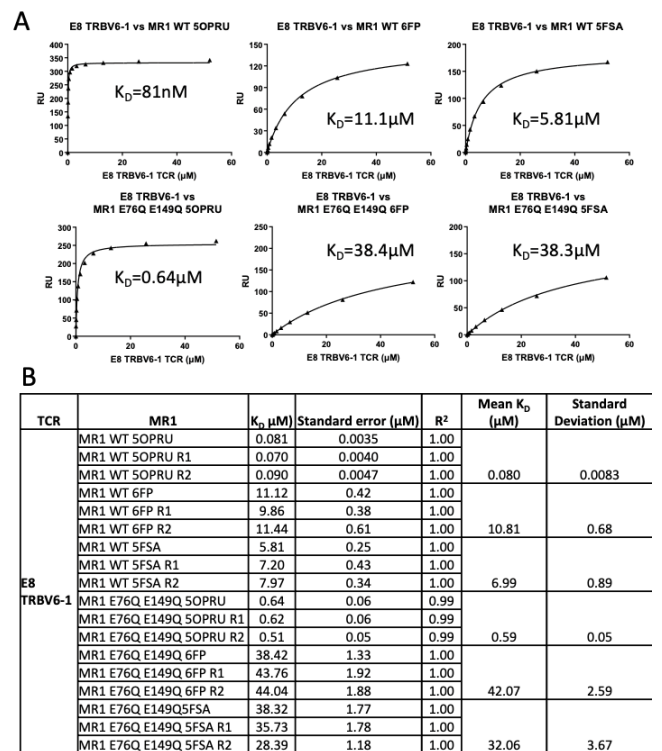
Experiment 1



Experiment 2



Experiment 3



Triplicate Biacore data across 3 experiments for E8 TCR binding to MR1 loaded with 5-OP-RU, 6-FP and 5FSA and the salt bridge knockout mutant MR1 E76Q and E149Q also loaded with 5-OP-RU, 6-FP and 5FSA. A. Representative binding curve for each of the E8 TCR and MR1 interaction. B. Affinities. Calculations and plots were completed in GraphPad software. R squared is shown to demonstrate quality the fitting of the binding curve used to calculate the KD (1= perfect score). R next to the MR1-ligand indicates this is a repeat. Mean KD and Standard deviation calculated from the triplicate KDs.