

Fig. (S1). Purity of the protein preparations. The purity of unphosphorylated cIR (A), biotinylated Avi.IR (B) and biotinylated phosphorylated Avi.IR (C) was determined by HPLC-MS/MS, as described under ‘Materials and Methods’. Representative mass spectra are represented. The theoretical molecular weights (MW_{th}) of cIR and biotinylated Avi.IR are 46962 and 49166, respectively. The biotinylated phosphorylated Avi.IR (C) is a mixture of proteins phosphorylated at 4 ($MW_{th} = 49486$), 5 ($MW_{th} = 49566$) and 6 ($MW_{th} = 49646$) sites.

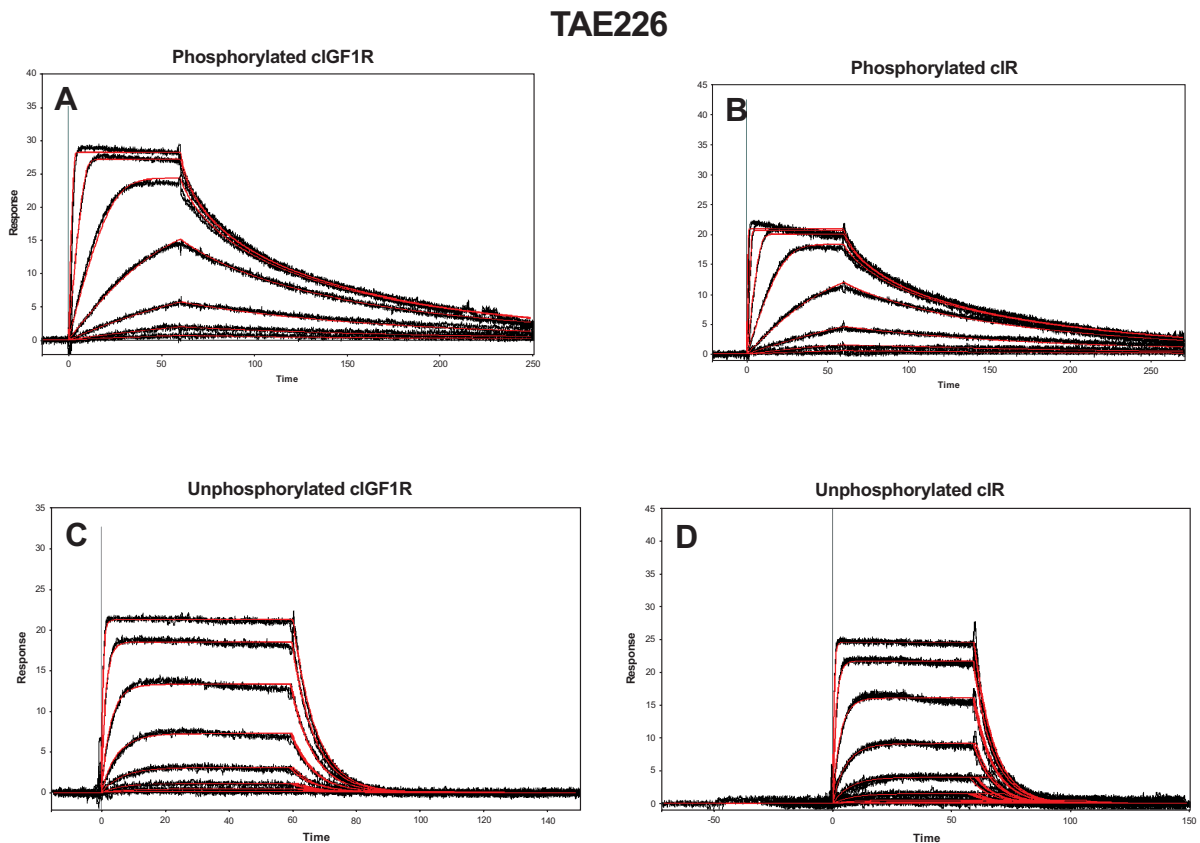


Fig. (S2). contd....

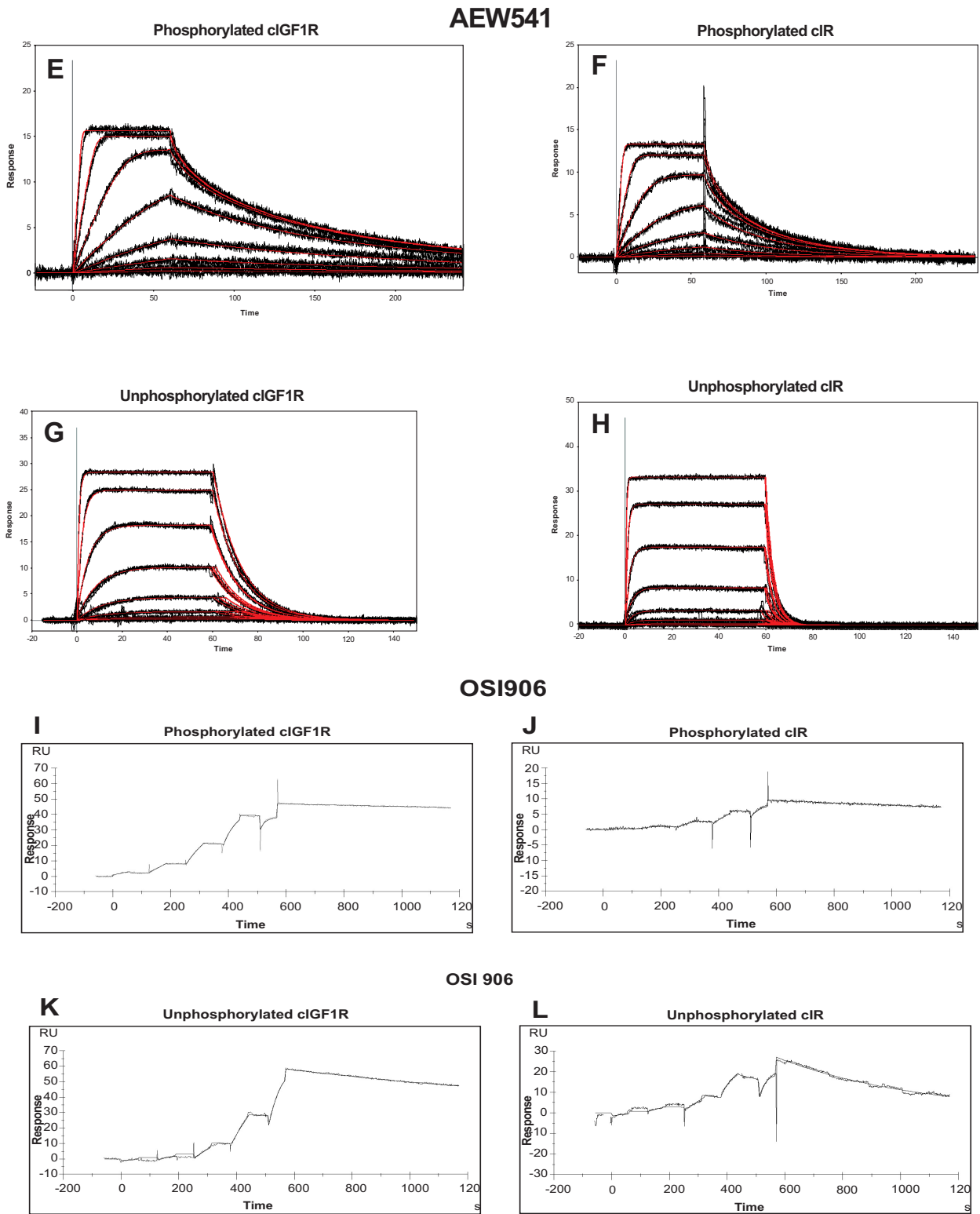
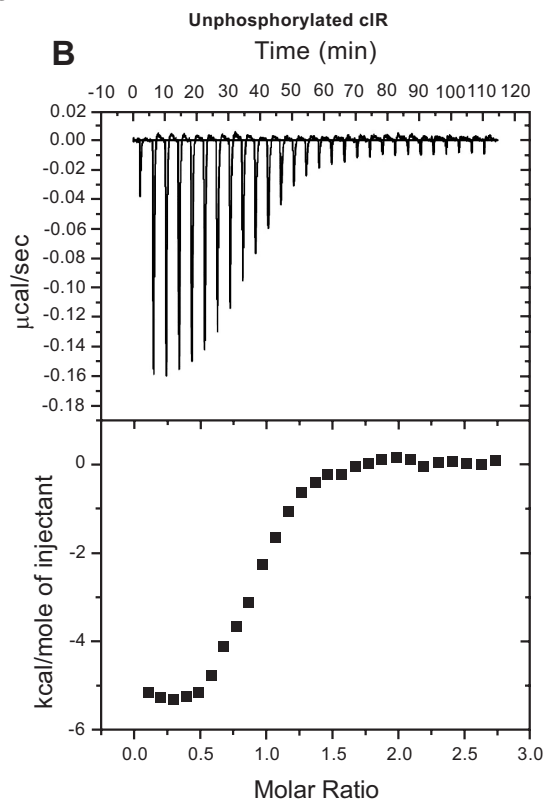
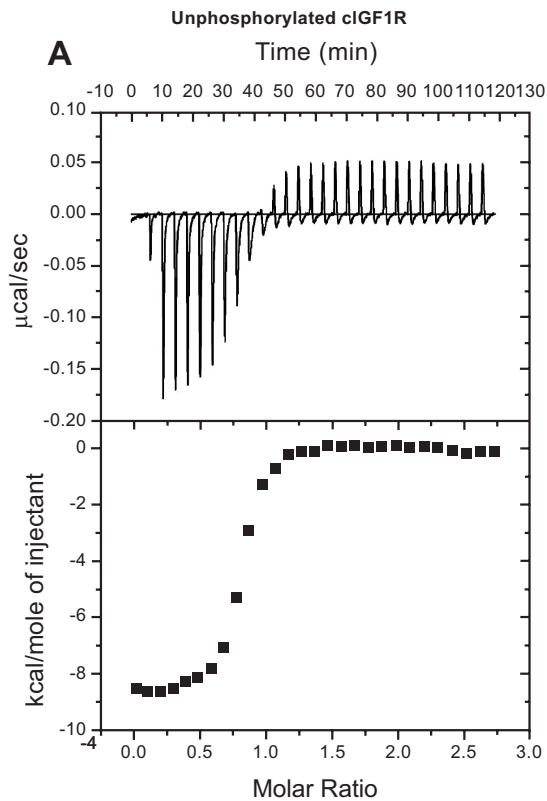


Fig. (S2). Kinetic characterization of inhibitors binding to phosphorylated and unphosphorylated biotinylated Avi.IGF1R and Avi.IR proteins. Sensorgrams obtained with TAE226 (A-D), AEW541 (E-H), OSI906 (I-L) with phosphorylated (A, E, I) and unphosphorylated (C, G, K) biotinylated Avi.IGF1R and on phosphorylated (B, F, J) and unphosphorylated (D, H, L) biotinylated Avi.IR. The TAE226 and AEW541 sensorgrams were obtained using the standard procedure. Sensorgrams for OSI906 were obtained by kinetic titration. See the legend of Fig. (4) for more details and under 'Material and Methods' for the kinetic titration.

AEW541



STAURO

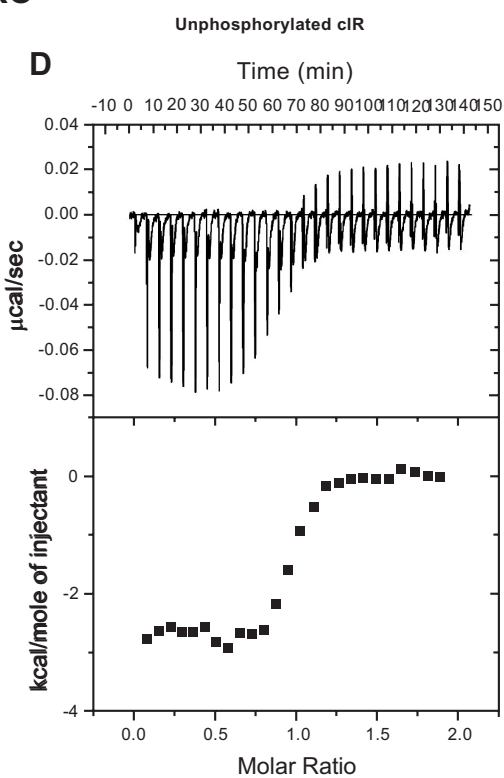
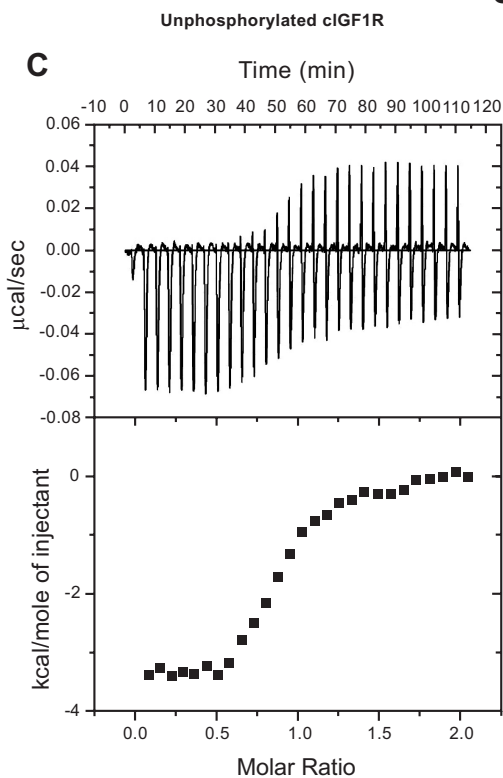


Fig. (S2). contd....

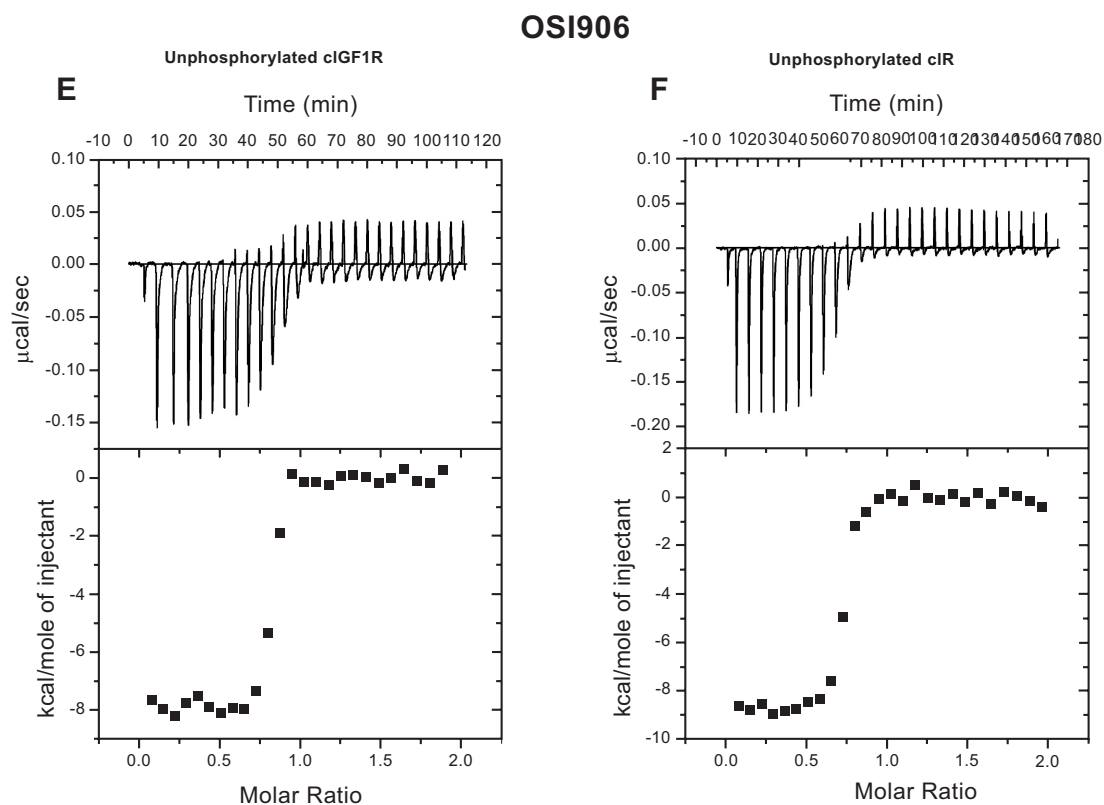


Fig. (S3). Isothermal calorimetry analysis of the interaction between the compounds and unphosphorylated IGF1r and cIR. The IGF1R (A, C, E) and cIR (B, D, F) proteins were titrated into a solution of AEW541 (A, B), STAURO (C, D) or OSI906 (E, F) as described under 'Material and Methods' in a VP-ITC calorimeter (Microcal). See the legend of Fig. (5) for more details.