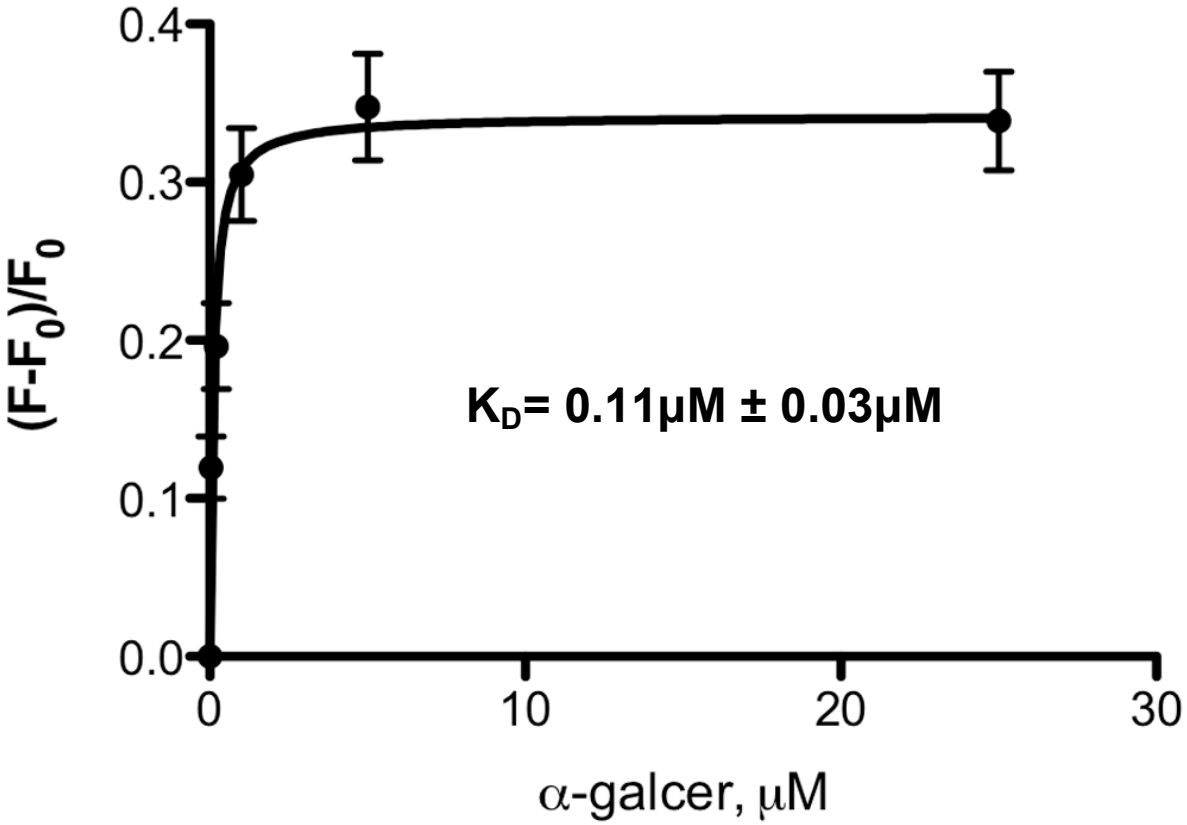
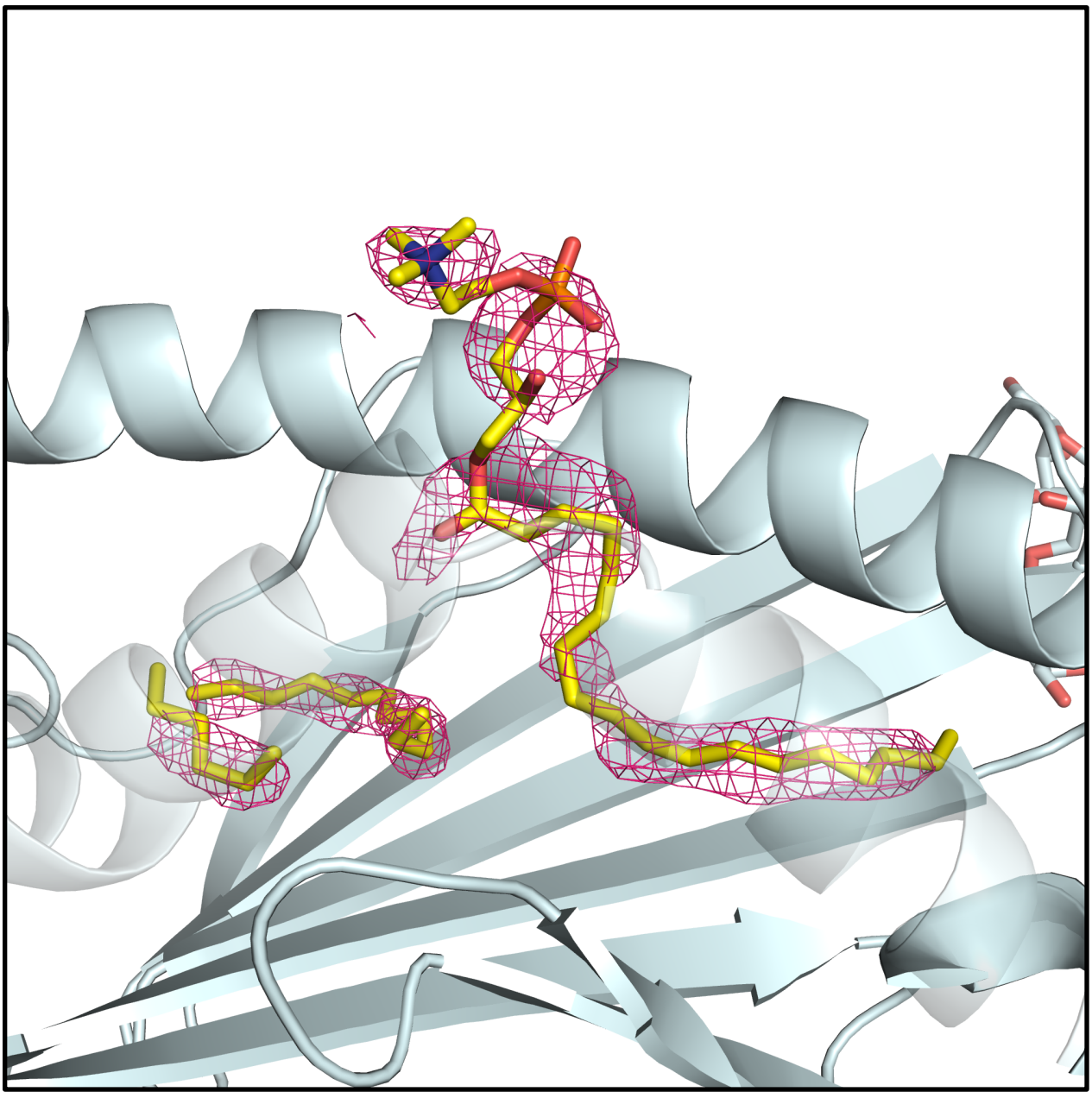
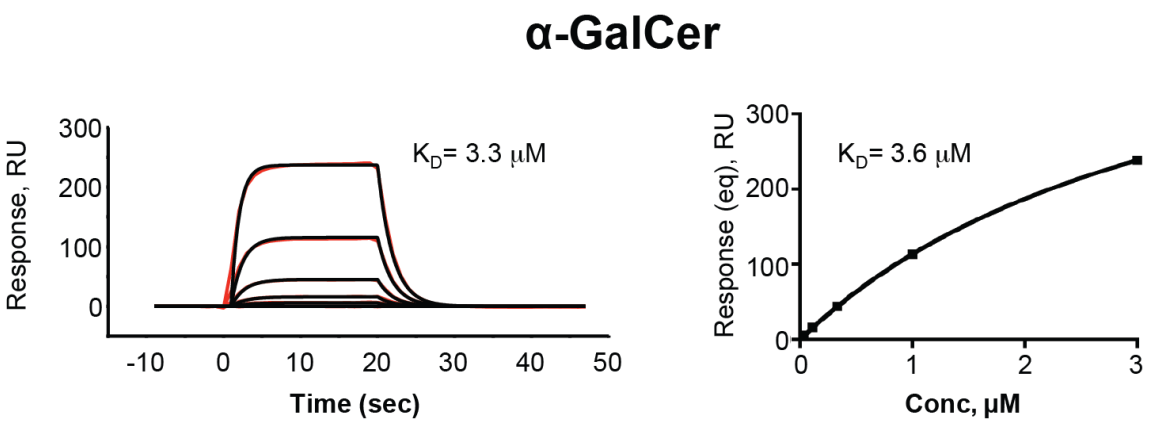
Supplemental Figures



Supplemental Figure 1A. The change in intrinsic tryptophan fluorescence of CD1d as a function of titrated amounts of αGalCer. The increase of tryptophan fluorescence with increasing amounts of LPC was expressed as a ratio $(E-E_o)/E_o$, the change in fluorescence divided by the control fluorescence in the absence of added αGalCer. The data were fit to a one-site binding model to determine the apparent K_D (as defined in the text) of this interaction.



Supplemental Figure 1B. Omit map electron density of LPC and spacer lipids presented by CD1d. Side view of the LPC/CD1d binary complex showing omit map electron density in pink, contoured at 1σ, for LPC and the C6 and C11 spacer lipids. The α1 helix has been made transparent for optimal viewing.



Supplemental Figure 2. Surface Plasmon Resonance measurements of iNKT-TCR binding to CD1d-αGalCer. Left panel: SPR traces of the LPC reactive iNKT-TCR (immobilized on chip) with αGalCer loaded CD1d as analyte. Curve fits are shown in red and were used to calculate the dissociation constant (K_D). Right panel: K_D calculated from equilibrium fits of saturation levels.