Supplemental Figure 1: NMR spectra illustrating a titration analysis of [D29-1,2-13C2]-palmitate binding to FABP2 in different molar ratio, from 0.5:1 to 2:1. We prepared four samples of FABP (as described in the Experimental section) with the final protein concentration being 1 mM and the final palmitate concentration varying between 0.5 mM and 2 mM. As in Figure 3 we only see the two diastereotopically resolved resonances corresponding to the bound palmitate. Spectra A1 through D1 show HCACO spectra at varying molar ratios of palmitate to FABP2 A1–0.5:1, B1–1:1, C1–1.5:1, D1–2:1. Spectra A1 through D1 display the corresponding HSQC spectra for each sample. The spectra show how the two diastereotopically resolved bound hydrogen resonances saturate at a 1:1 molar ratio and do not change intensity relative to one another.