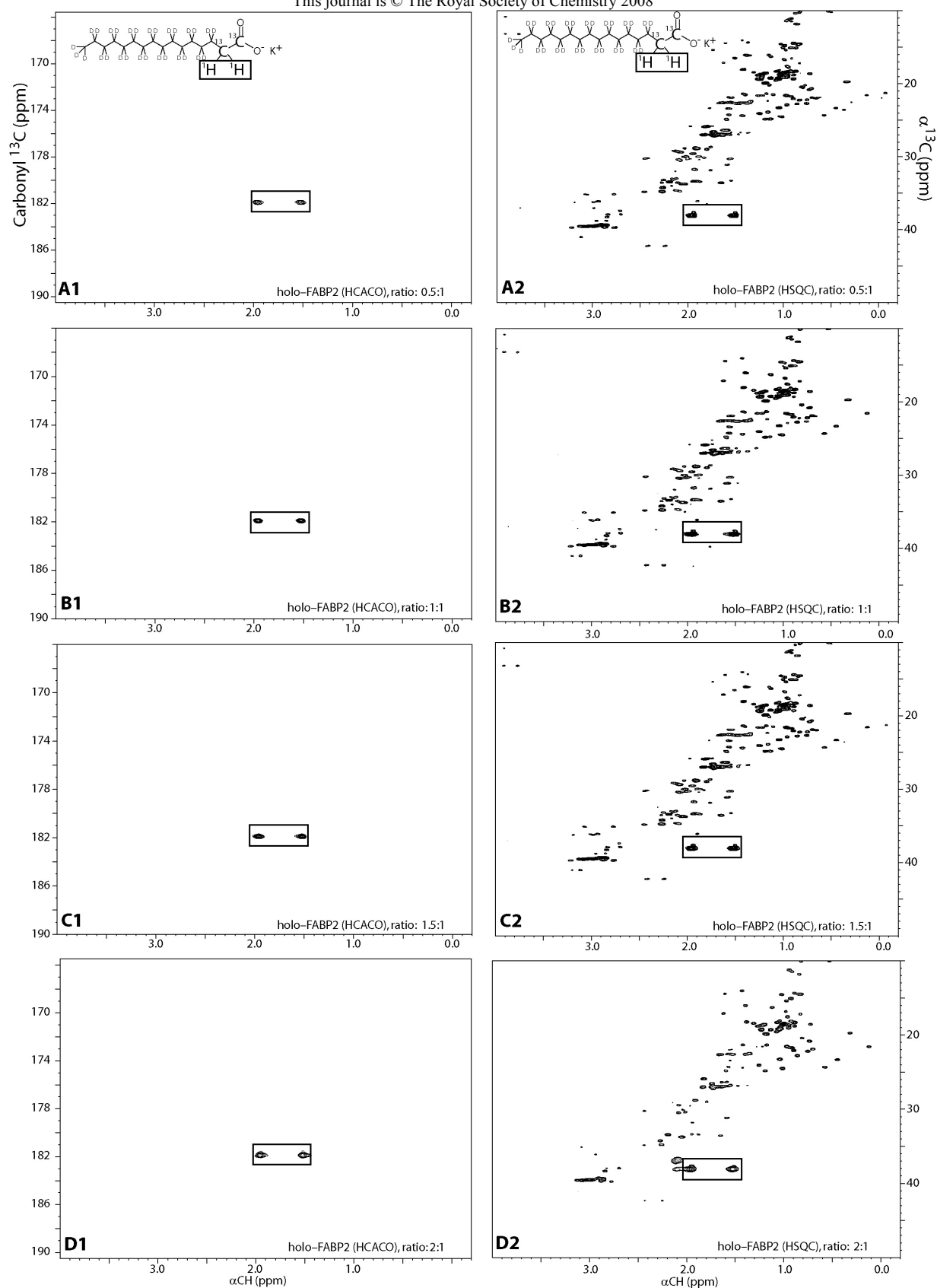




Supplemental Figure 1: NMR spectra illustrating a titration analysis of [D29-1,2-13C2]-palmitate binding to FABP2 in different molar ratio, from 0.5:1 to 2:1. We prepared four samples of FABP (as described in the Experimental section) with the final protein concentration being 1 mM and the final palmitate concentration varying between 0.5 mM and 2mM. 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.