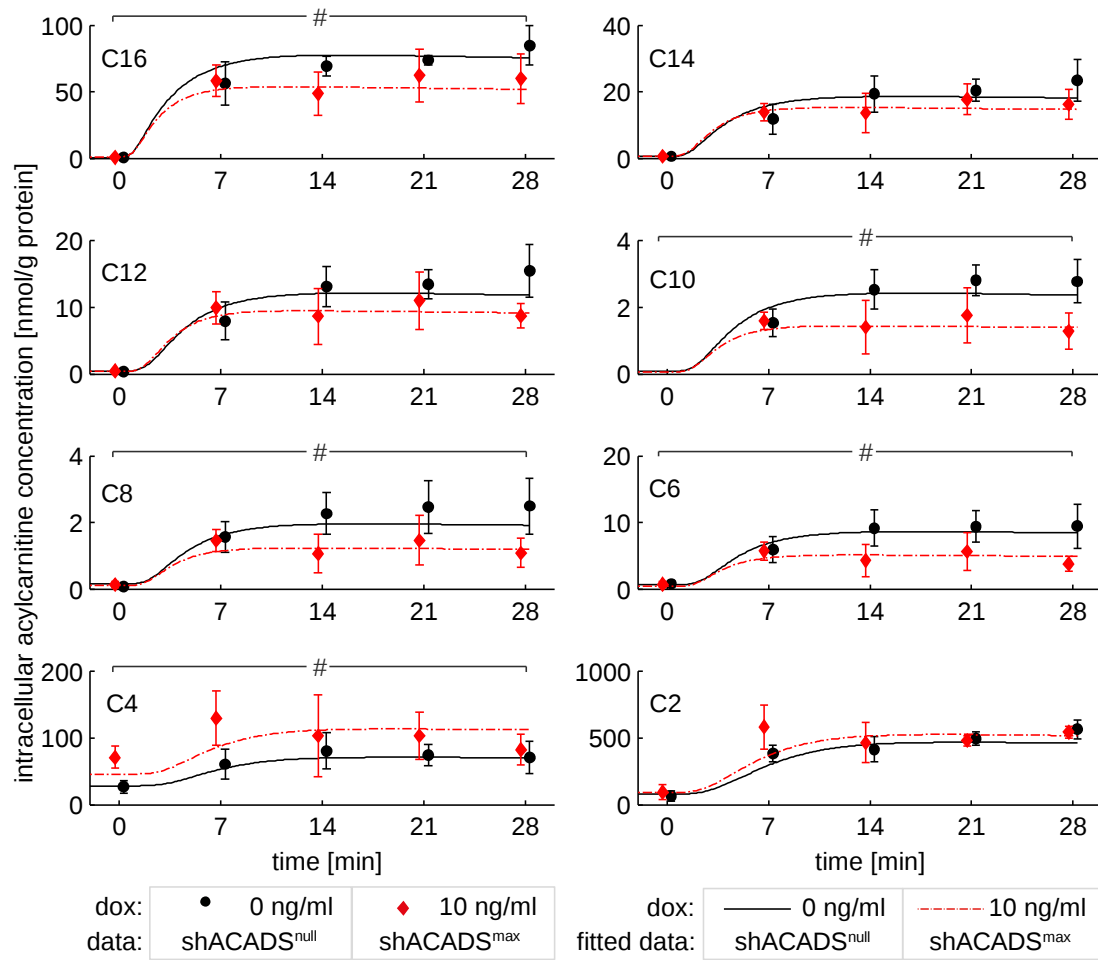




S5 Fig. Model-based analysis of intracellular acylcarnitine time course data in cells with maximal ACADS knockdown. Results from fitting the linear fatty acid oxidation model to the null (shACADS^{null}) and maximal (shACADS^{max}) ACADS knockdown data. Intracellular acylcarnitine levels, representing acyl-CoAs with corresponding chain length, were extracted and measured before palmitic acid loading and 7, 14, 21 and 28 min after loading in shACADS knockdown Huh7 cells, i.e. shACADS^{null} and shACADS^{max} cells treated with 0 and 10 ng/ml doxycycline (dox), respectively, for shRNA induction. Values of four independent experiments are shown as mean $\pm$ SD (original data of single measurements are given in S1A Table). # indicates significant difference ($p < 0.05$) between reaction rate $k^{\text{shACADS}^{\text{max}}}$ and $k^{\text{shACADS}^{\text{null}}}$ of the respective knockdown experiments (see also Fig 3C).