

Supplementary Figures

Figure S1. Monitoring CaM-Cx50₁₄₁₋₁₆₆ complex formation by mass spectroscopy. The MALDI-MS spectra of the free form of CaM (~17 kDa) and the complex form of CaM-Cx50₁₄₁₋₁₆₆ (~20 kDa). The inset showed the molecular weight of the Cx50₁₄₁₋₁₆₆ peptide.

Figure S2. Monitoring the interaction between Apo-CaM and Cx50 peptides by (¹H, ¹⁵N)-HSQC spectroscopy. An overlay of HSQC spectra of apo-CaM (red) with the spectrum of the apo-CaM-Cx50₁₄₁₋₁₆₆ (green).

Figure S3. The dansyl fluorescence anisotropy. D-CaM (1 μM) was titrated with Cx50₁₄₁₋₁₆₆ in 100mM KCl, 5mM CaCl₂, 50mM Tris-HCl at pH 7.5. The fluorescence anisotropy were measured at λ_{ex} = 335 nm and λ_{em} = 495 nm with an integration time of 20s. The inset shows the anisotropy change for D-CaM (free), and the complex of D-CaM-Cx50p (bound).

Figure S4. Comparison of the α family of connexins. An overlay of the HSQC spectra of holo-CaM (yellow), holo-CaM-Cx50p (green), and holo-CaM-Cx43p (violet). Arrows indicated that most signals shifted to the same direction due to identical binding mode, while rectangles highlighted some exceptions.

Figure S1

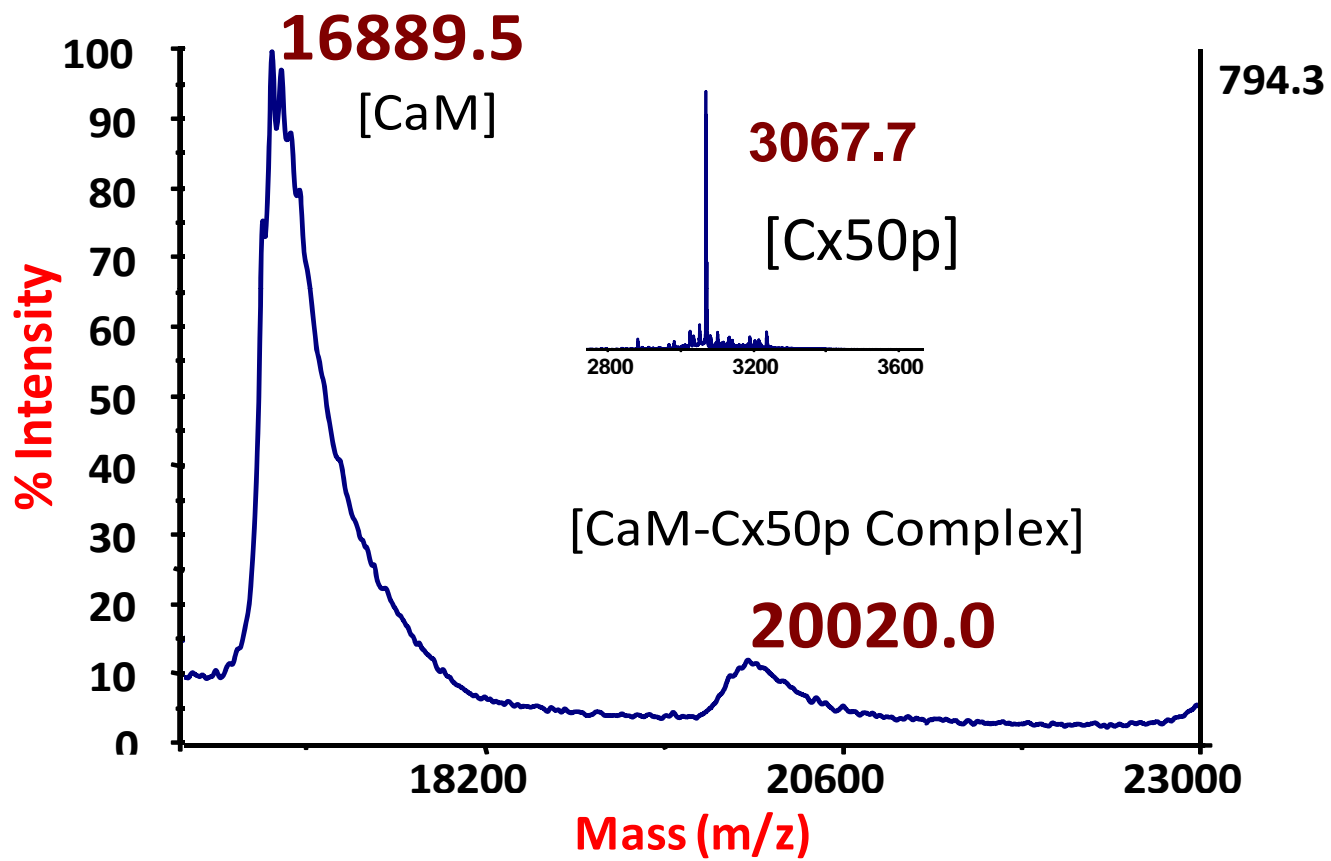


Figure S2

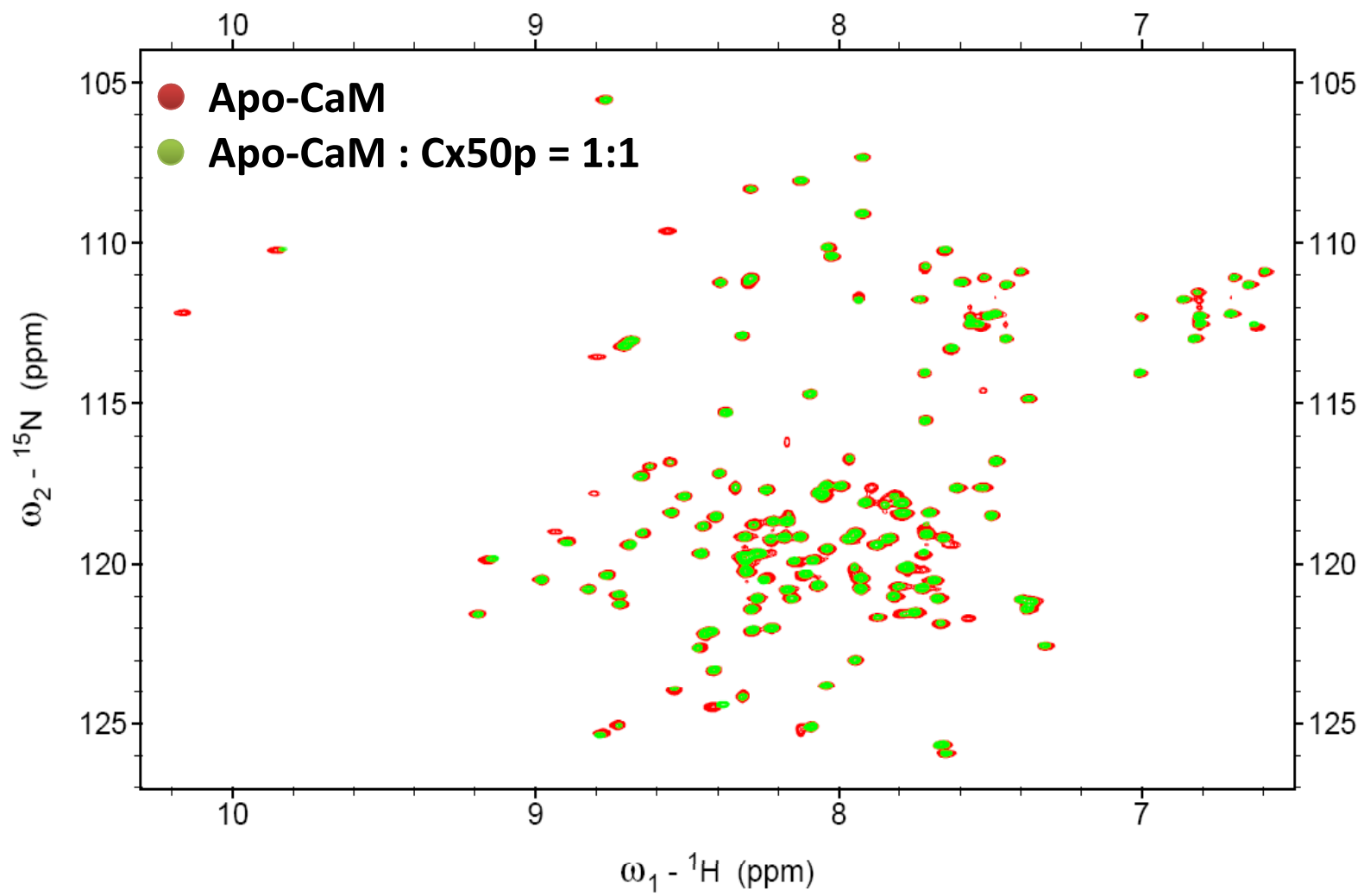


Figure S3

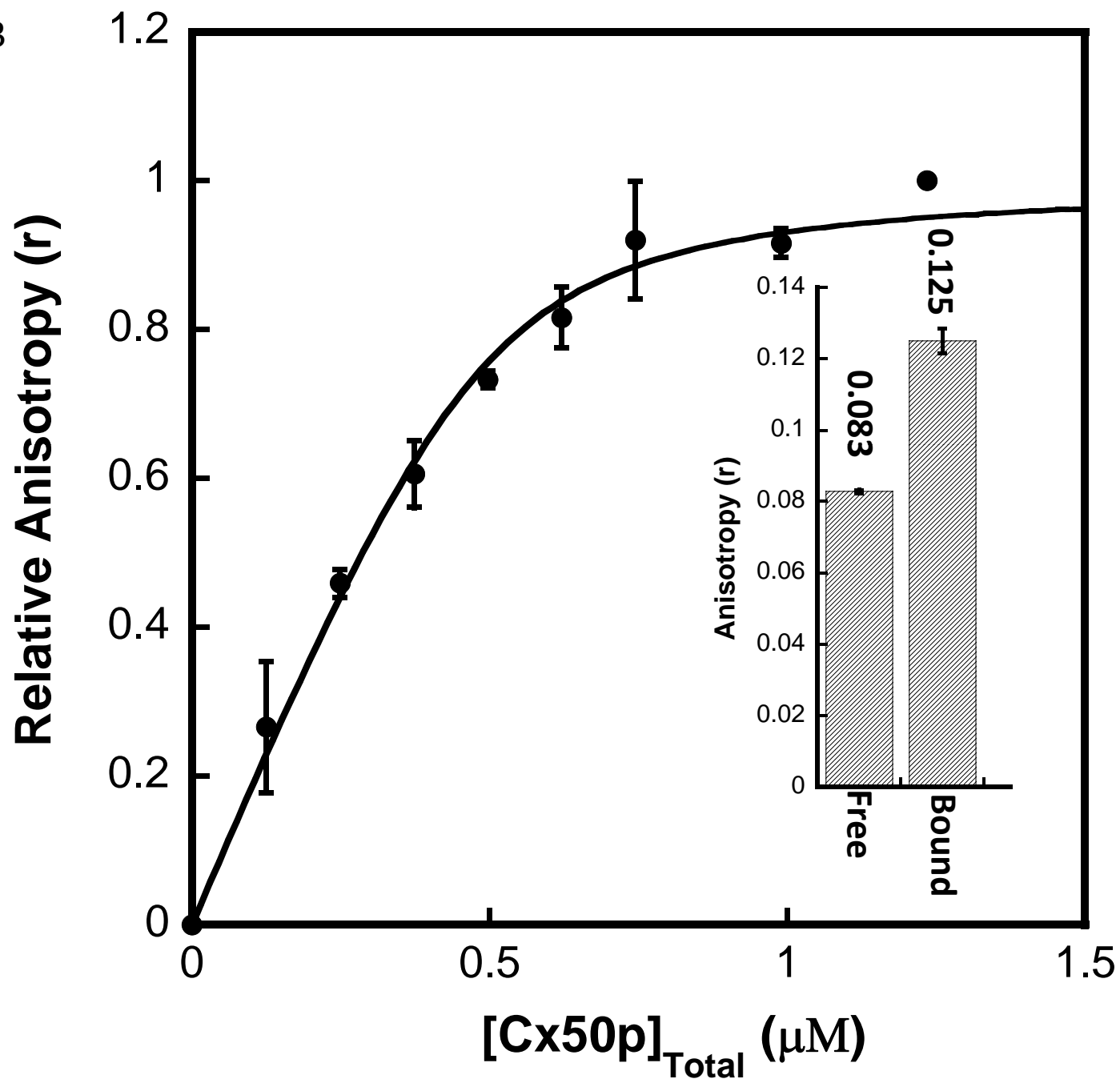


Figure S4

