

Supplementary Information

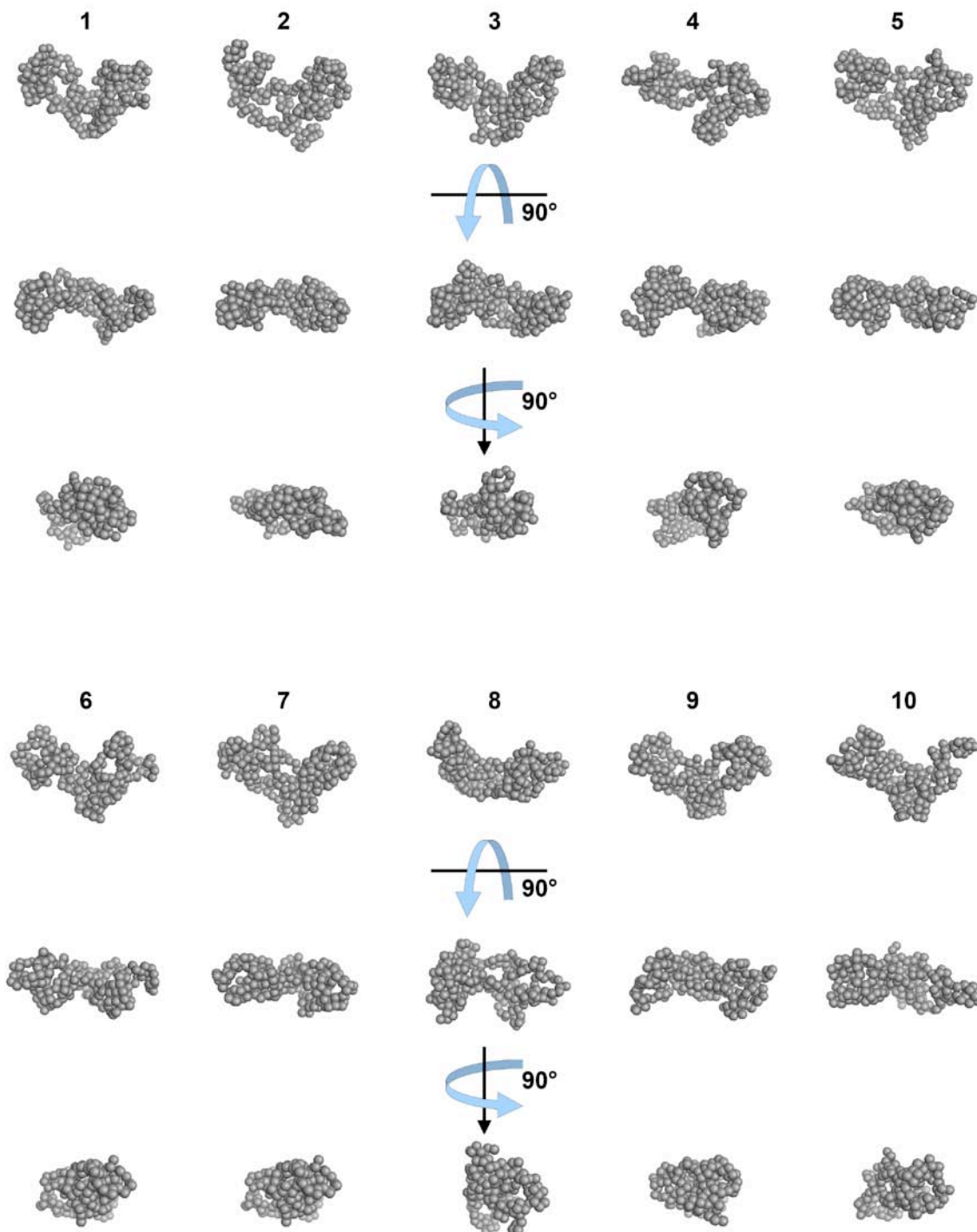


Figure S1: Reconstructed three-dimensional *ab initio* models of $\text{Ca}^{2+}/\text{CaM}/\text{NHE1}_{\text{CaMBD}}$. Ten single models restored by the program GASBOR are shown. The average shape for the molecular envelope of $\text{Ca}^{2+}/\text{CaM}/\text{NHE1}_{\text{CaMBD}}$ has been calculated from these ten independent GASBOR models using program DAMAVER.

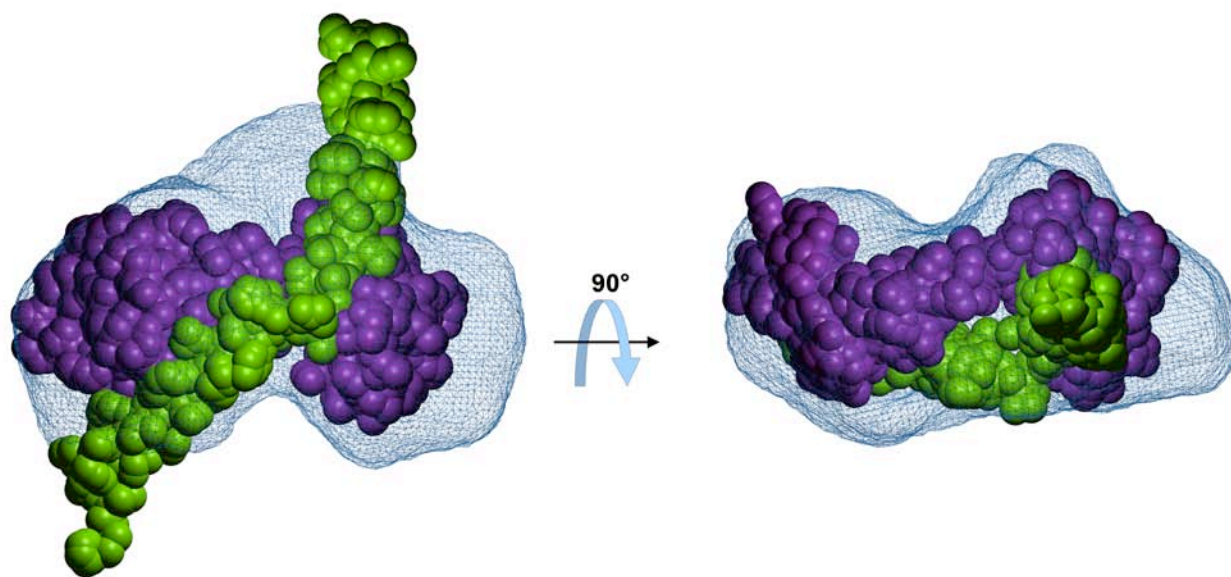


Figure S2: SAXS analysis of the NHE1_{CaMBR}/Ca²⁺/CaM complex structure in solution. A low-resolution envelope (blue mesh) with the space filled model of NHE1_{CaMBR}/Ca²⁺/CaM. NHE1_{CaMBR} is shown in green and CaM in purple.