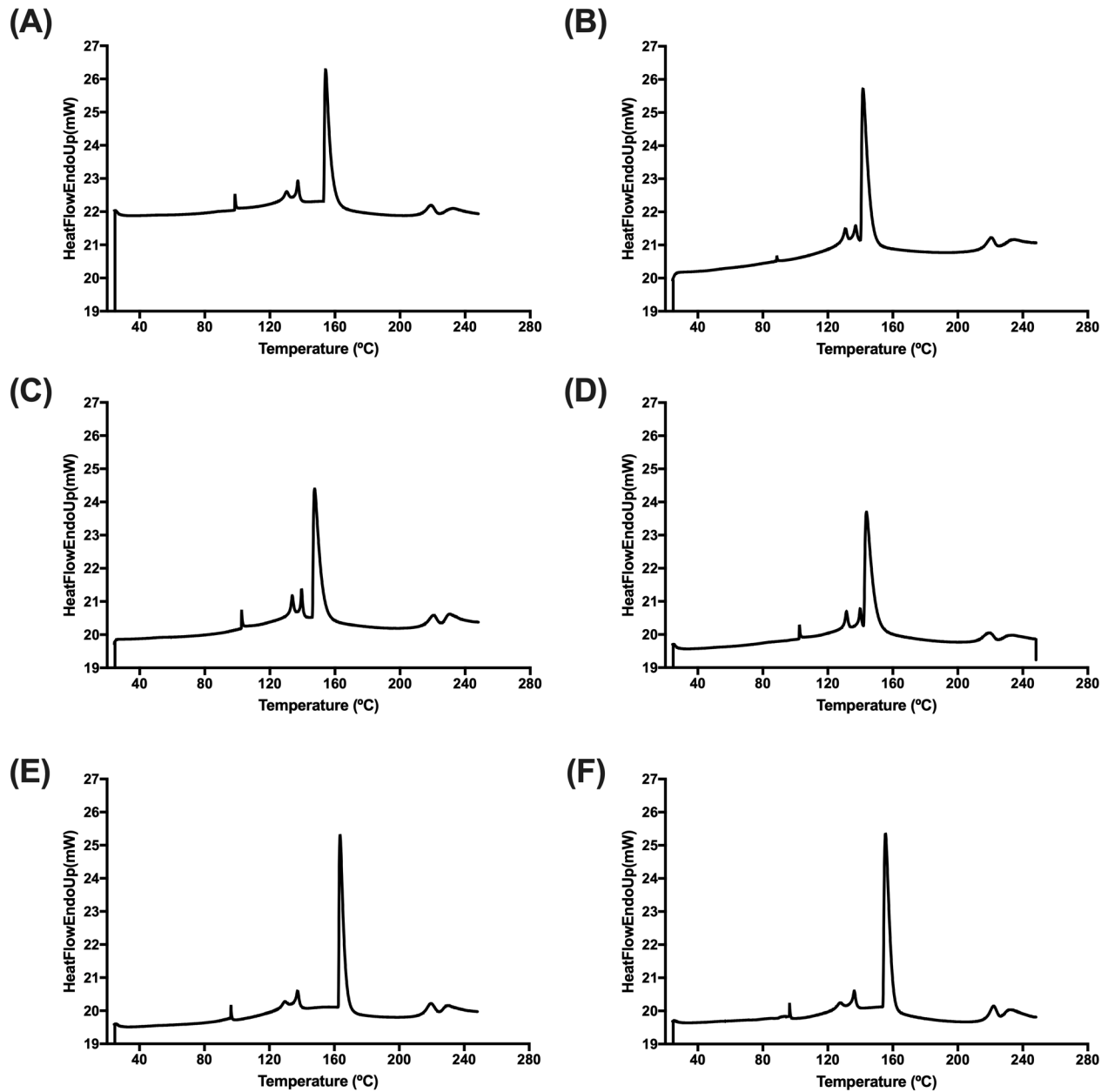
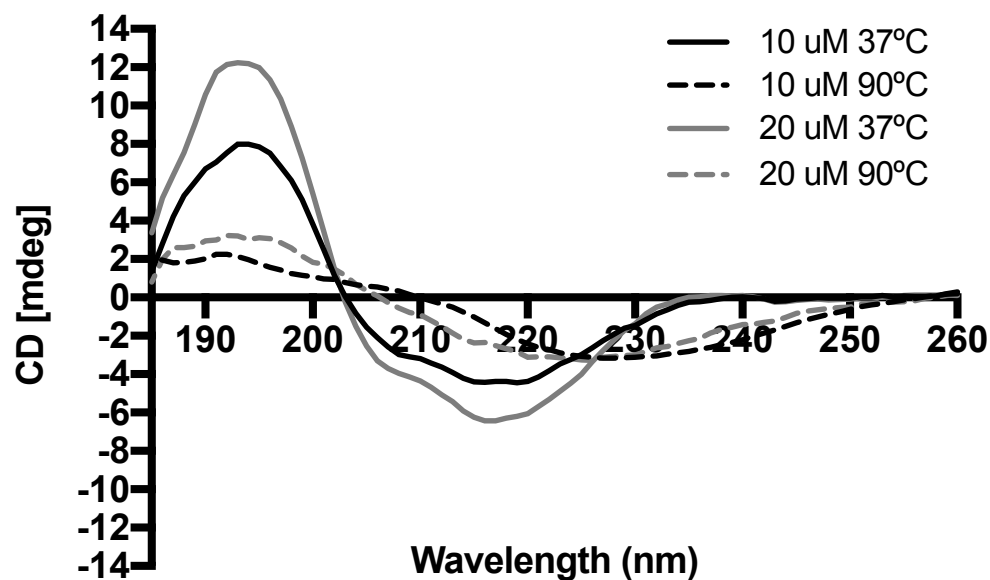


## Supplementary Material

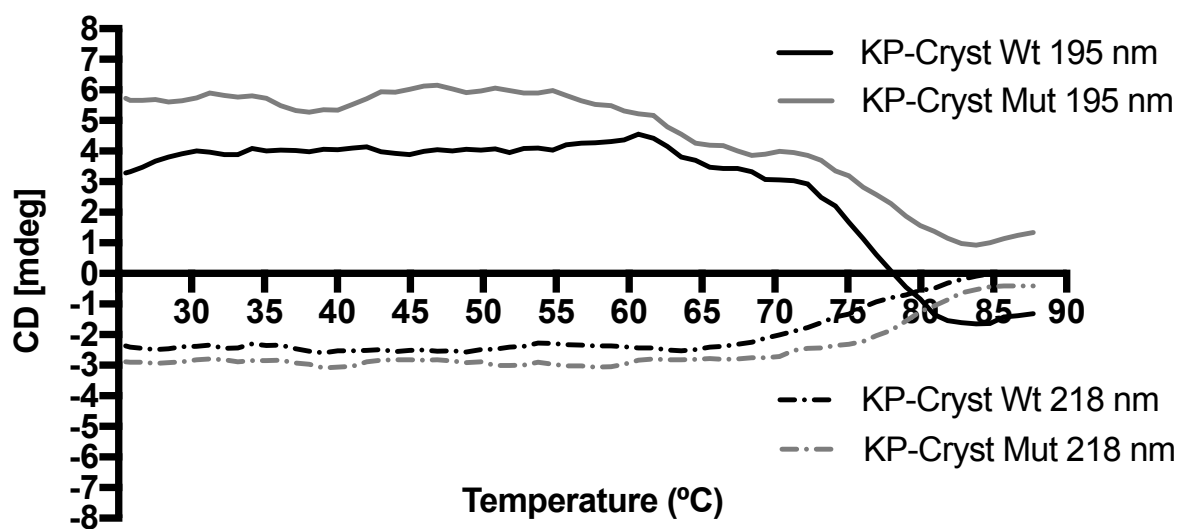
### 1. Supplementary Figures



**Supplementary Figure 1.** DSC thermograms of Caucasian Brown hair treated with (A) buffer pH5, (B) buffer pH9, (C) KP-Cryst Wt pH5, (D) KP-Cryst Wt pH9, (E) KP-Cryst Mut pH5 and (F) KP-Cryst Mut pH9 proteins.



**Supplementary Figure 2.** Effect of protein concentration and temperature on the circular dichroism spectra of KP-Cryst Mut proteins. Experiments were conducted at 37 and 90 °C.



**Supplementary Figure 3.** Thermal unfolding curves obtained for KP-Cryst Wt and KP-Cryst Mut proteins by monitoring CD signal at 218 and 195 nm from 25 to 90°C. All the spectra are background corrected.