

Microscopic Nucleation and Propagation Rates of an Alanine-Based α -Helix

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Supporting Information

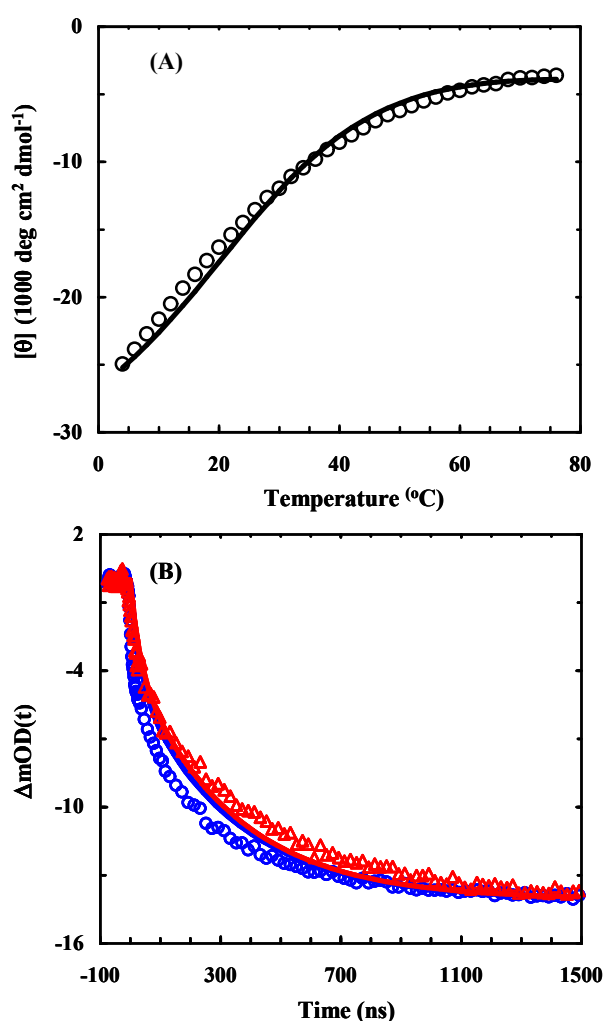


Figure S1: Global fitting results of the CD thermal unfolding curve (A) and the IR T -jump relaxation kinetics (B) of the AK peptide using a total of 6 fitting parameters. In each case, the symbols represent the original experimental data and the line corresponds to the respective fit.

Table 1. Rate constants obtained from the global fitting of the experimental CD T -melt curve and T -jump kinetic traces of the AK peptide using the 12-parameter model.

T (°C)	$(k_N)^{-1}$ (ns)	$(k_{-N})^{-1}$ (ns)	$(k_{PN})^{-1}$ (ns)	$(k_{PM})^{-1}$ (ns)	$(k_{PC})^{-1}$ (ns)	$(k_{-PN})^{-1}$ (ns)	$(k_{-PM})^{-1}$ (ns)	$(k_{-PC})^{-1}$ (ns)
0.5	103.9	28.3	12.0	4.9	91.7	17.6	16.5	206.4
14.5	103.9	23.0	12.0	4.9	91.7	13.2	15.2	116.6

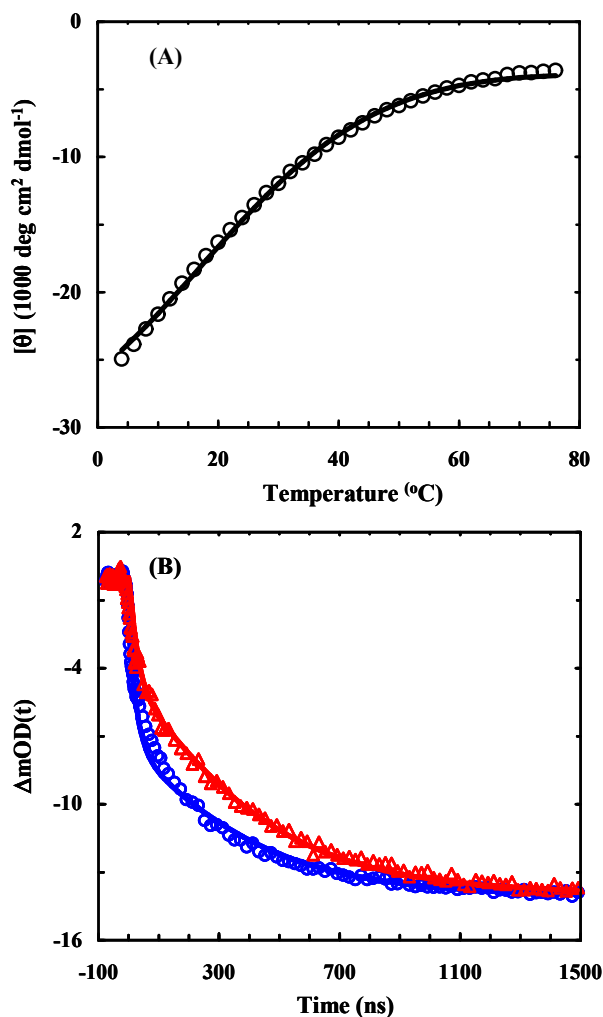


Figure S2: Global fitting results of the CD thermal unfolding curve (A) and the IR T-jump relaxation kinetics (B) of the AK peptide using a total of 12 fitting parameters. In each case, the symbols represent the original experimental data and the line corresponds to the respective fit. The resultant fitting parameters are given in Table S1.