

Figure S5. Comparison of estimated and experimental  $C_{\alpha}$  displacement amplitudes. Amplitudes of  $C_{\alpha}$  displacements estimated using reconstructed in-phase trajectories are compared with displacements obtained from the averages of all crystal structures in WPD<sub>open</sub> and WPD<sub>closed</sub> conformation listed in Table S1. Estimated and experimental displacements are shown in blue and black, respectively.