

Supporting Information

Direct Observation of Ligand Rebinding Pathways in Hemoglobin Using Femtosecond Mid-IR Spectroscopy

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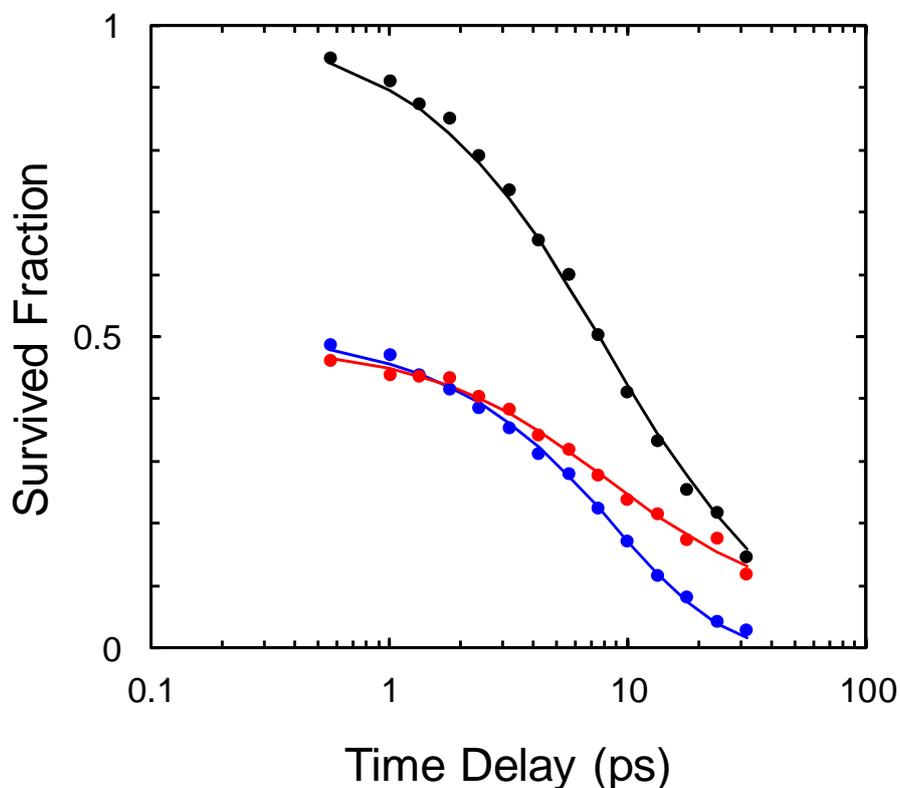


Figure S1. Kinetics of geminate rebinding of NO after photodeligation of HbNO in D₂O at 283K (black circles). Kinetics of spectral components are also shown; blue circles are for A_{G1} band and red circles for A_{G2} band. The solid lines are the fits to exponential functions; $0.51 \exp(-t/9 \text{ ps})$ for A_{G1} band and $0.27 \exp(-t/7 \text{ ps}) + 0.22 \exp(-t/29 \text{ ps})$ for A_{G2} band. As discussed in the result section, the kinetics parameters could be very sensitive to the background subtraction. Therefore, we could not add any physical significance to the fitted kinetics parameters.