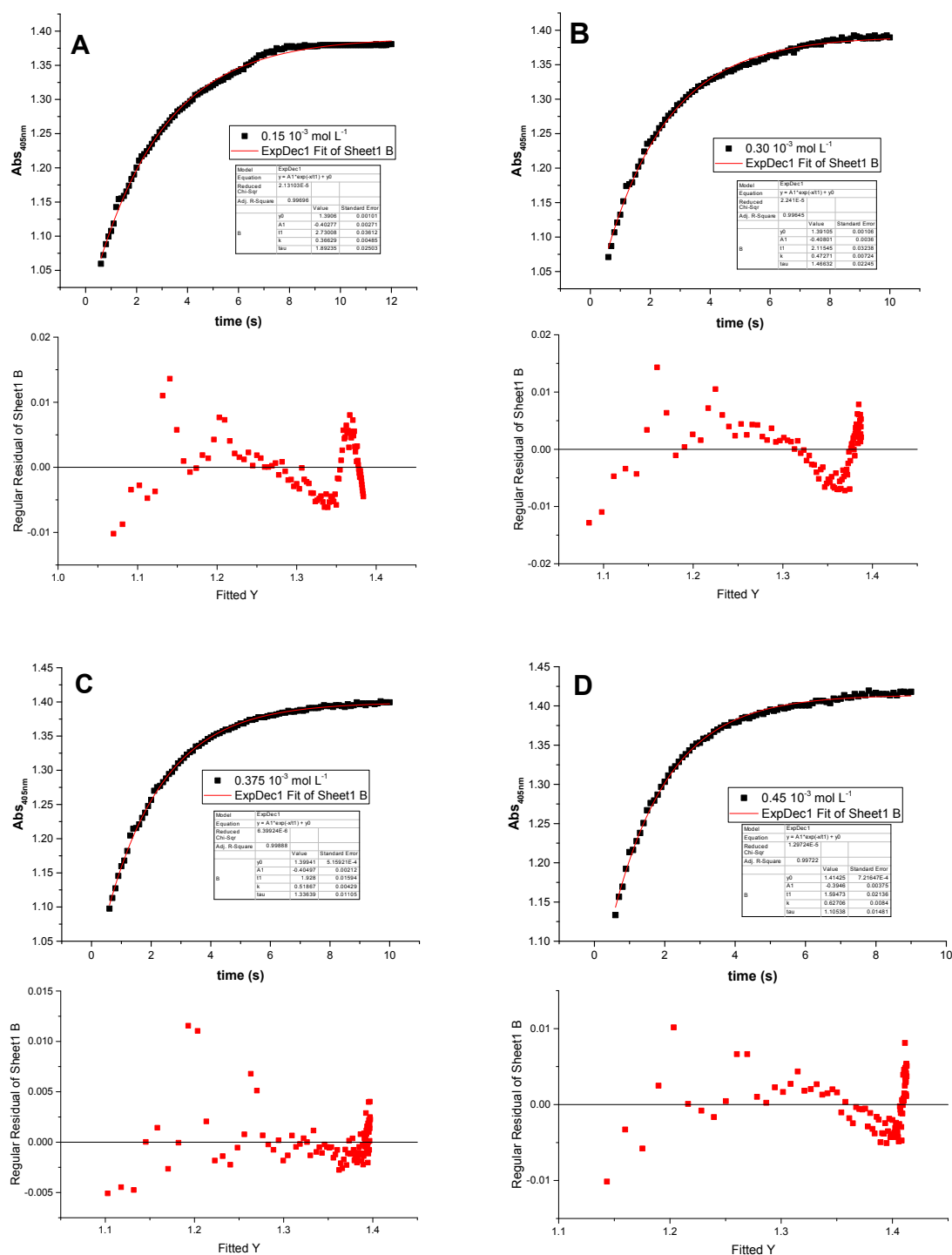


SUPPORTING INFORMATION

Figure S1. Stopped-flow kinetic traces obtained at 405 nm for the reduction of ferryl myoglobin by uric acid at increasing concentrations (A= $0.150 \times 10^{-3} \text{ mol L}^{-1}$, B = $0.300 \times 10^{-3} \text{ mol L}^{-1}$, C = $0.375 \times 10^{-3} \text{ mol L}^{-1}$, D = $0.450 \times 10^{-3} \text{ mol L}^{-1}$ and E = $0.600 \times 10^{-3} \text{ mol L}^{-1}$), best non-linear fitting parameter and regular residual for the best fit. k_{obs} were determined as $1/t_1$ and an average value of three independent measurements ($n=3$).



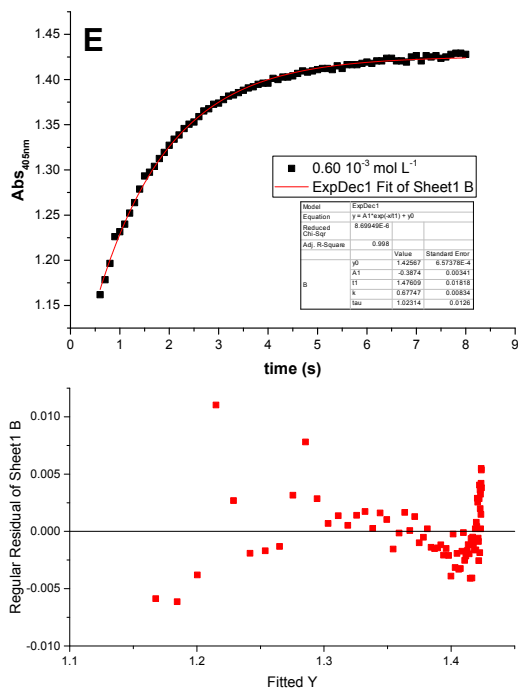


Figure S 2. Stopped-flow kinetic traces obtained at 580 nm for the reduction of ferryl myoglobin by uric acid at increasing concentrations ($A = 0.150 \cdot 10^{-3} \text{ mol L}^{-1}$, $B = 0.300 \cdot 10^{-3} \text{ mol L}^{-1}$, $C = 0.375 \cdot 10^{-3} \text{ mol L}^{-1}$, $D = 0.450 \cdot 10^{-3} \text{ mol L}^{-1}$ and $E = 0.600 \cdot 10^{-3} \text{ mol L}^{-1}$), best non-linear fitting parameter and regular residual for the best fit. k_{obs} were determined as $1/\tau$ and an average value of three independent measurements ($n=3$).

