Supporting Information

A New Spin Probe of Protein Dynamics: Nitrogen Relaxation in ^{15}N-^{2}H Amide Groups

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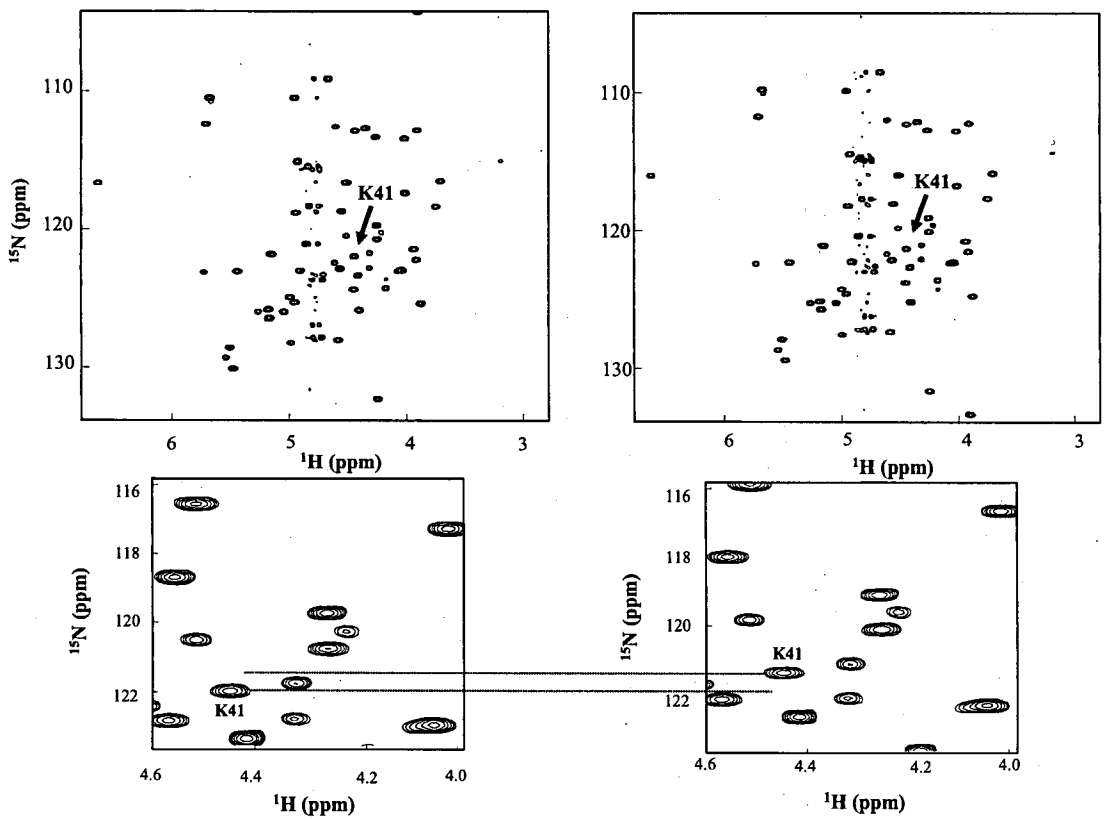

Figure 1S. Equivalent of Fig. 3 illustrating $R_1(C'_z N_z[^1\mathrm{H}/^2\mathrm{D}])$ spectra recorded at 600 MHz.

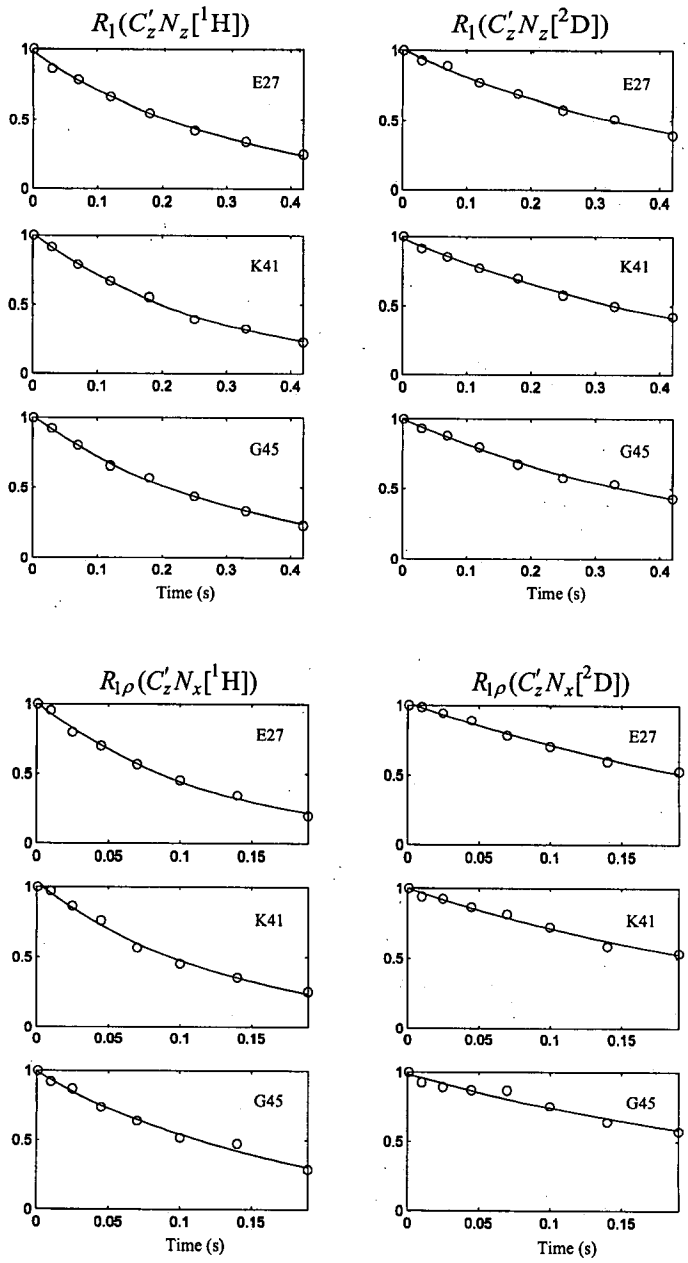

Figure 2S. Equivalent of Fig. 4 illustrating $R_1(C'_zN_z[^1H/^2D])$ and $R_{1\rho}(C'_zN_x[^1H/^2D])$ relaxation profiles for selected residues at 500 MHz.

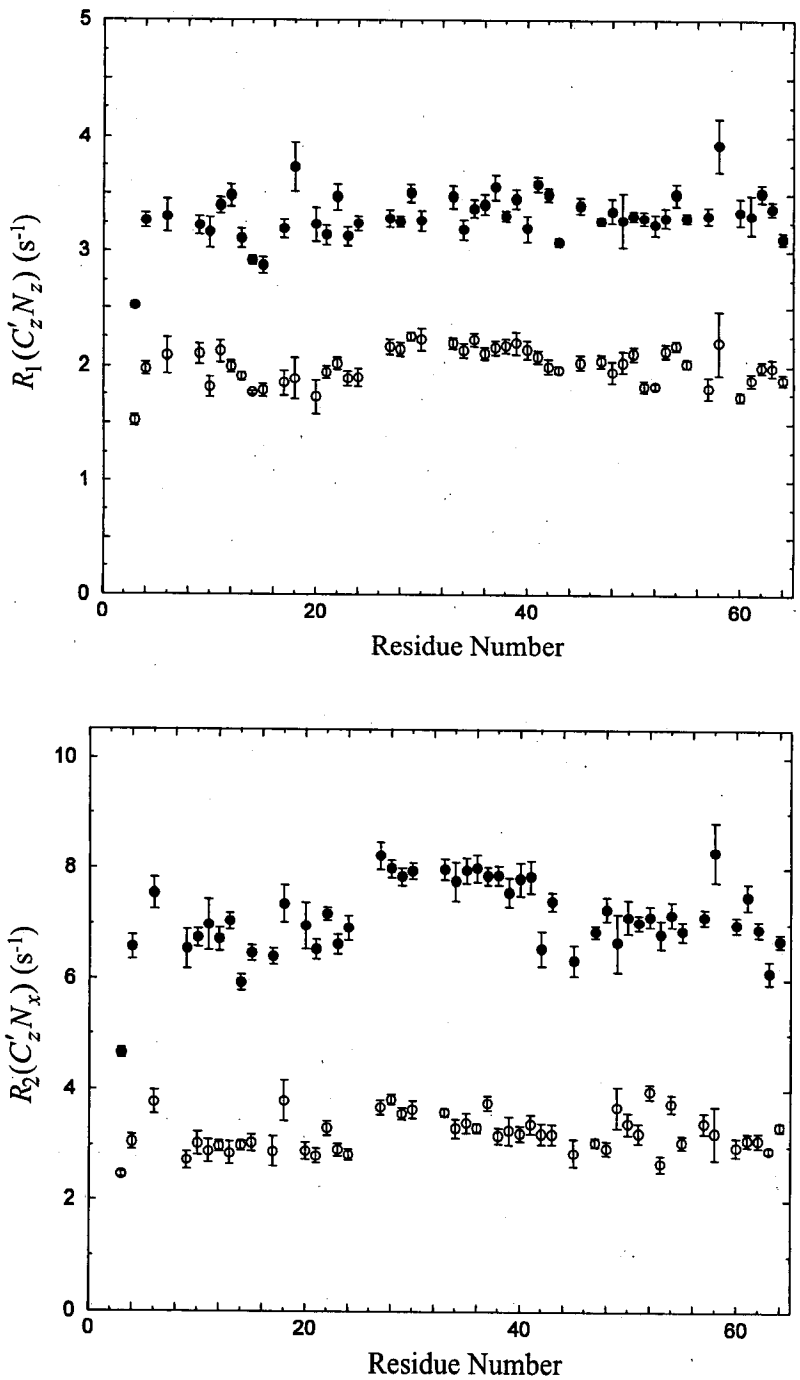

Figure 3S. Equivalent of Fig. 5 showing $R_1(C'_zN_z[^1\mathrm{H}/^2\mathrm{D}])$ and $R_2(C'_zN_x[^1\mathrm{H}/^2\mathrm{D}])$ relaxation rate constants determined from 500 MHz measurements as a function of residue number in protein L.