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Supplementary Material for

Design of a Unique Protein Scaffold for Maquettes

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Figure S1 One-dimensional NMR spectra in the aromatic-amide proton region of (A) H10H24, (B) H10H24-L13F, (C) H10H24-L6I and (D) H10H24-L6I,L13F. Spectra were acquired using identical acquisition and processing parameters.

Figure S2 ^{1}H-^{1}H NOESY NMR spectra in the aromatic-amide proton region of the double variant H10H24-L6I,L13F. Solution conditions were as follows: 1.0 mM protein in 20 mM phosphate buffer [pH 7.20], 50 mM KCl, 8% D_2O and 32°C.

Figure S3 Heme binding titration for H10H24-L6I,L13F. Spectra were acquired on a Perkin-Elmer 2D Spectrophotometer at 25°C in 10mM potassium phosphate, 100mM KCl, pH 8.1 buffer. Peptide concentration was 4 μM as determined spectrophotometrically using Trp (ε_{280} = 5600 M^{-1} cm^{-1} $helix^{-1}$).

Figure S4 Electron paramagnetic resonance spectrum of holo-H10H24-L6I,L13F. EPR spectroscopy was performed using a Bruker ESP300E spectrometer operating at X-band frequencies. EPR parameters: sample temperature, 20K; microwave frequency 9.455 GHz; microwave power, 10 mW; modulation frequency, 100 kHz; modulation amplitude, 20 G; receiver gain, 2 x 10^4; time constant, 164 ms; scans, 1.

Figure S1

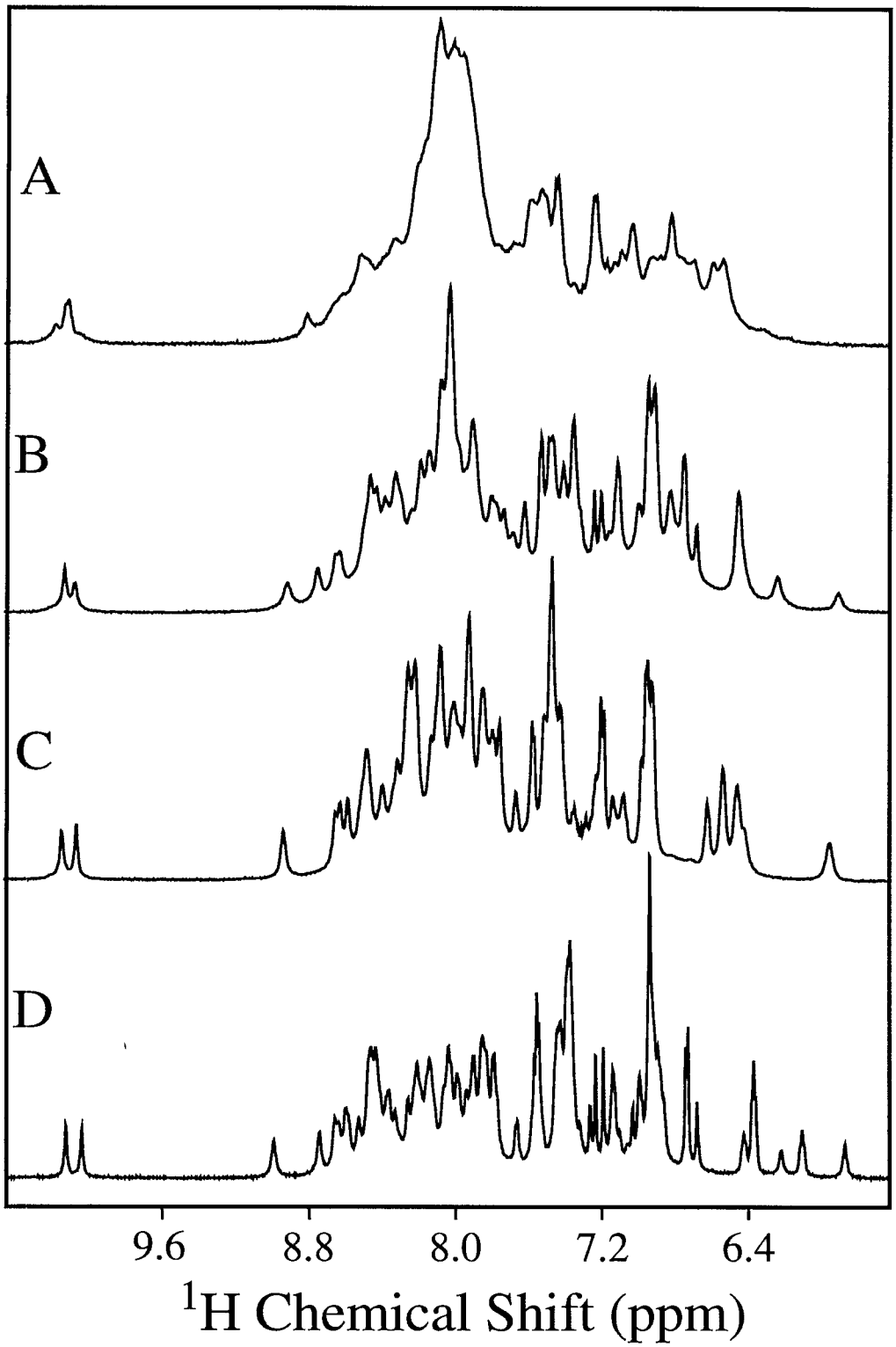

Figure S2

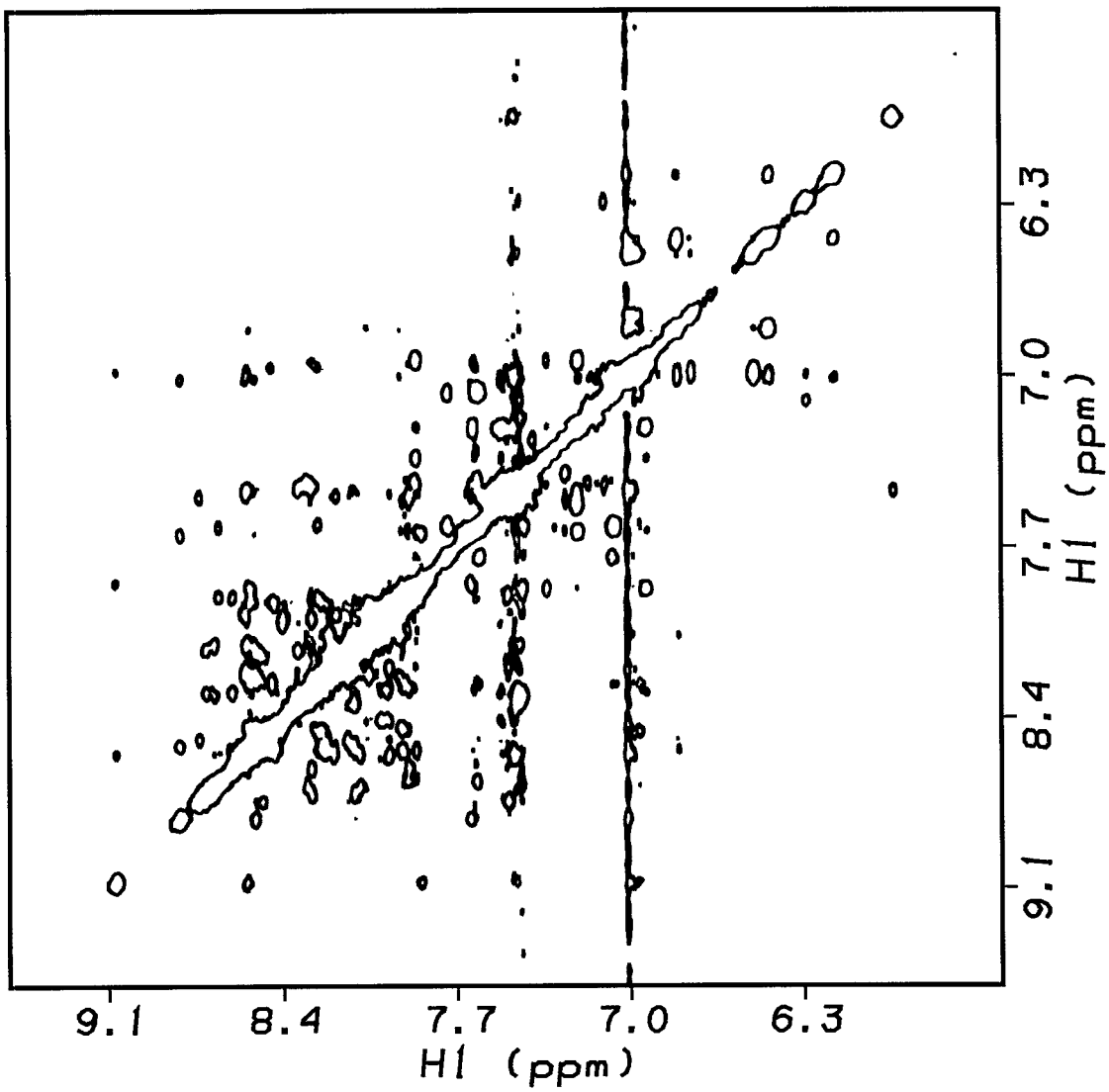

Figure S3

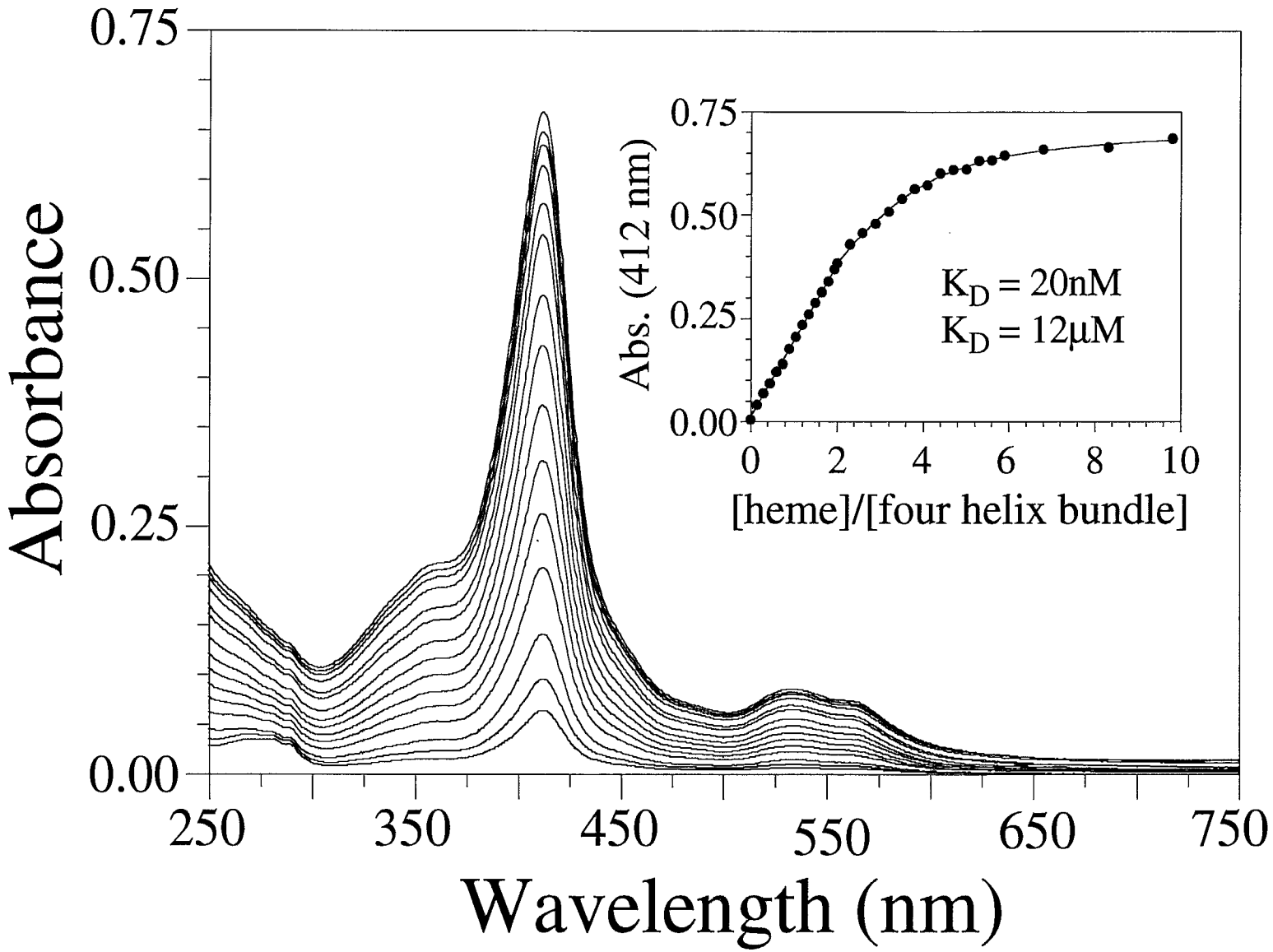

Figure S4