

Electronic Supplementary Information

Ytterbium-Substituted Transferrin and Lactoferrin for Near-Infrared Luminescent pH Indication

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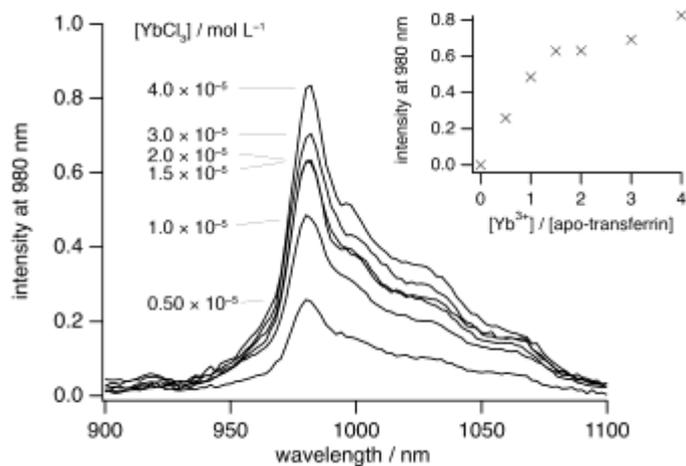


Fig. S1 Luminescence titration of apo-transferrin with YbCl₃ at pH 7.4. [apo-transferrin] = 1.0 × 10⁻⁵ mol L⁻¹, [YbCl₃] = 0.5–4.0 × 10⁻⁵ mol L⁻¹ in 1.0 × 10⁻² mol L⁻¹ HEPES buffer.

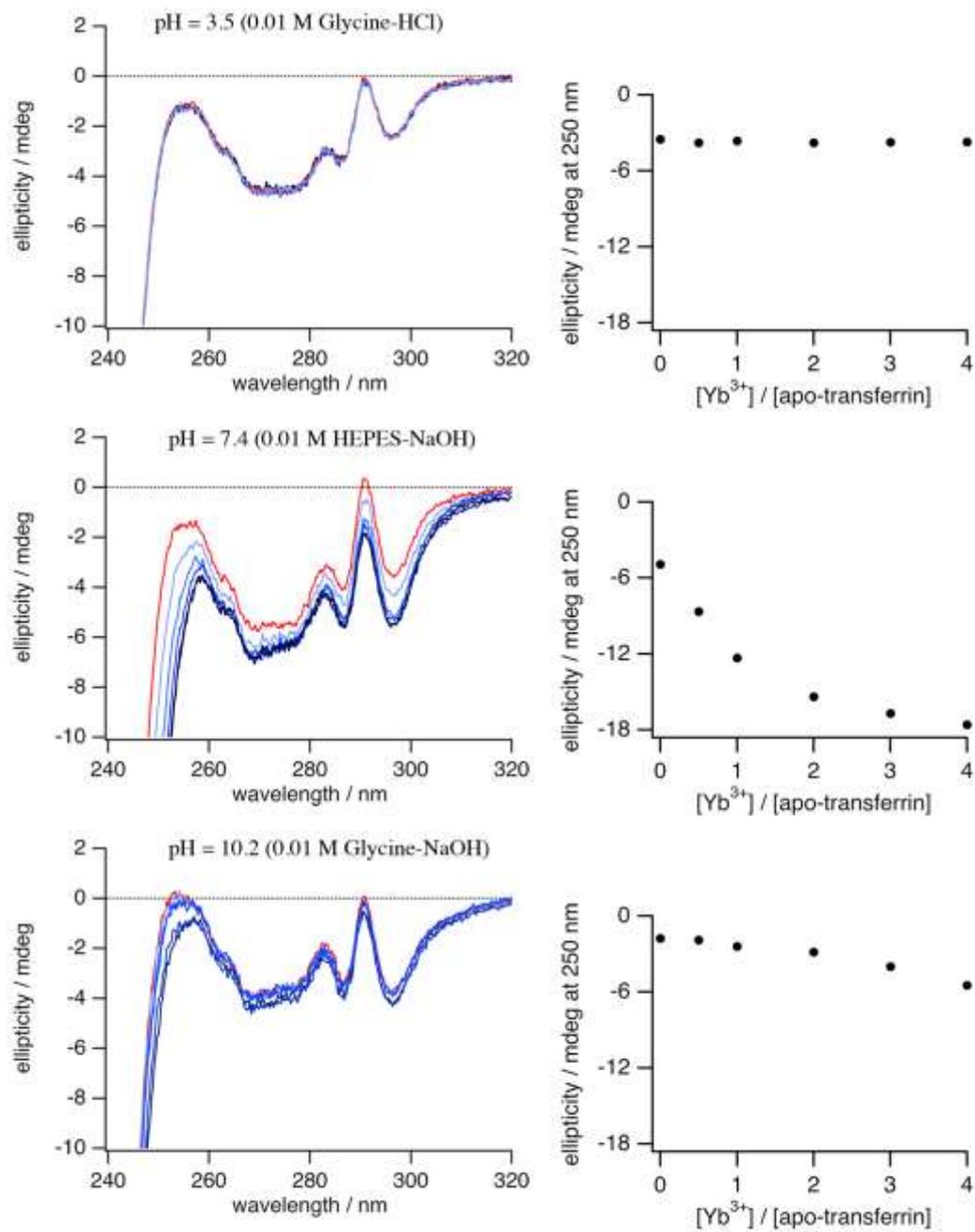


Fig. S2 Circular dichroism titration of apo-transferrin with YbCl₃ at pH 3.5, 7.4 and 10.2. [apo-transferrin] = 1.0×10^{-5} mol L⁻¹, [YbCl₃] = $0.5-4.0 \times 10^{-5}$ mol L⁻¹