

Electronic Supporting Information

for

Calf Thymus DNA-Stabilized Polythiophene Fluorescence Probe for Label-Free Detection of Spermine †

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Figures

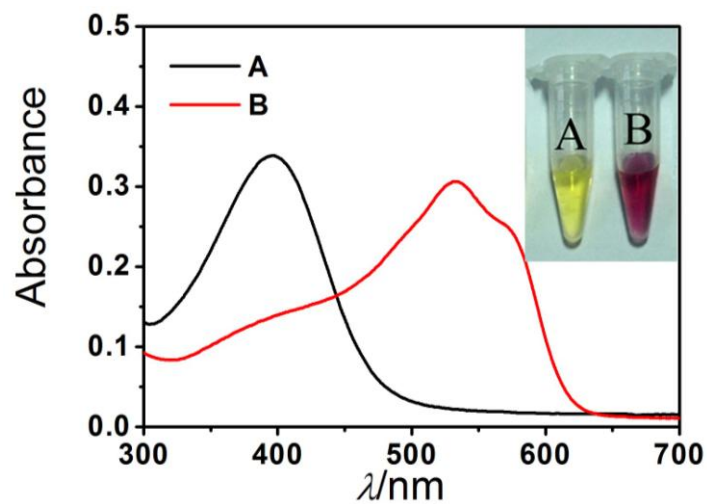


Fig. S1 Absorption spectra and the corresponding color change of polythiophene in the presence of KI. A, polythiophene; B, polythiophene+KI. Concentrations: polythiophene, 1.5×10^{-4} M; KI, 2.5 mM.

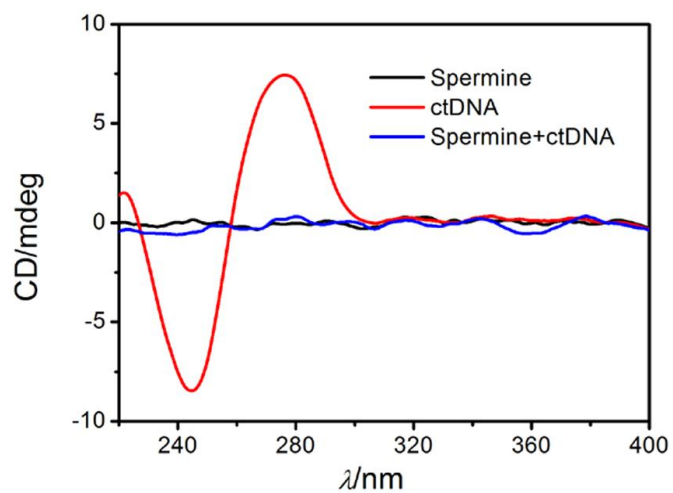


Fig. 2 Circular dichroism spectra of spermine and ctDNA. Concentrations: ctDNA, 0.1 mg/mL; spermine, 40.0 μ M; pH 5.78.

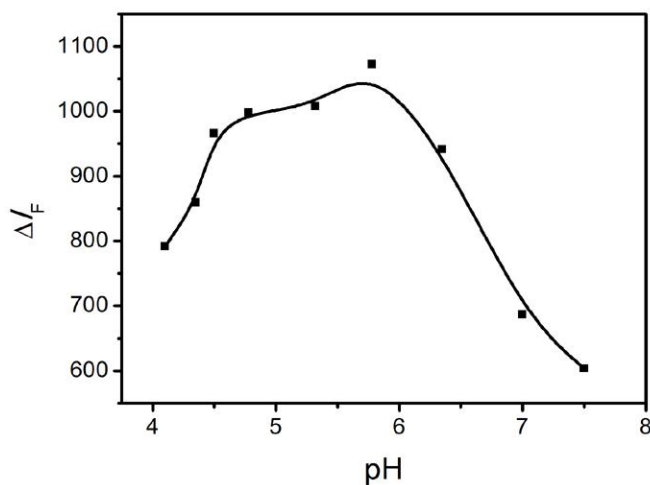


Fig. S3 The dependence of the fluorescence intensity on pH. $\Delta I_F = I - I^0$; I , fluorescence of ctDNA/polythiophene/KI; I^0 , fluorescence of spermine/ctDNA/polythiophene/KI. Concentrations: polythiophene, 1.5×10^{-4} M; ctDNA, 0.1 mg/mL; KI, 2.5 mM; spermine, 40.0 μ M.

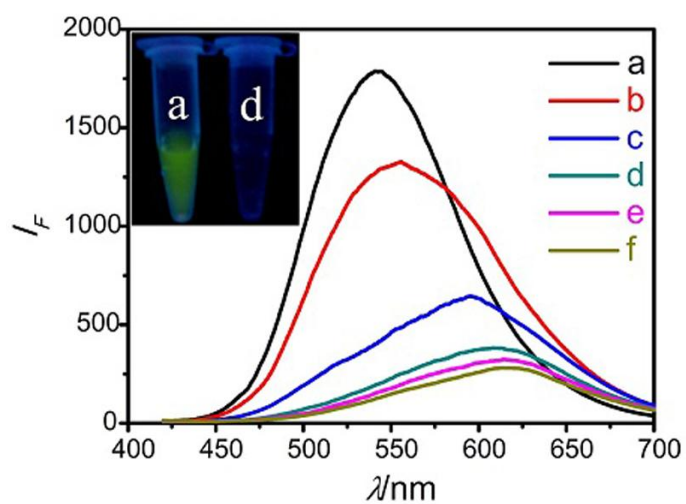


Fig. S4 The fluorescence emission spectra and fluorescence imaging of polythiophene in the presence of KI. a, polythiophene; b-f, polythiophene/KI. Concentrations: polythiophene, 1.5×10^{-4} M; KI (from a to f), 0, 0.625, 1.25, 2.5, 3.75, 5.0 mM; pH 5.78