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Supplementary Information

Colorimetric and fluorescent sensing of new FRET system via [5]helicene and rhodamine 6G for Hg²⁺ detection

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Fig. S1 HR-ESI MS of compound RG5H: C₅₂H₄₇N₄O₆⁺ calcd. 823.3490; m/z (M+H)⁺ found 823.3510



Fig. S2 ¹H NMR spectrum of compound RG5H in CDCl₃ (300 MHz)



Fig. S4 DEPT-135 NMR spectrum of compound RG5H in CDCl₃ (75 MHz)



Fig. S5 ¹H NMR titration of RG5H with Hg²⁺ in DMSO-d6 (300 MHz)



Fig. S6 The fluorescence intensity changes of RG5H in the presence of Hg²⁺ as a function of time.