

Electronic Supplementary Information

For

Synthesis and crystal structure of new monometallic Ni(II) and Co(II) complexes with an asymmetrical aroylhydrazone: Effects of the complexes on DNA/protein binding property, molecular docking, and in vitro anticancer activity

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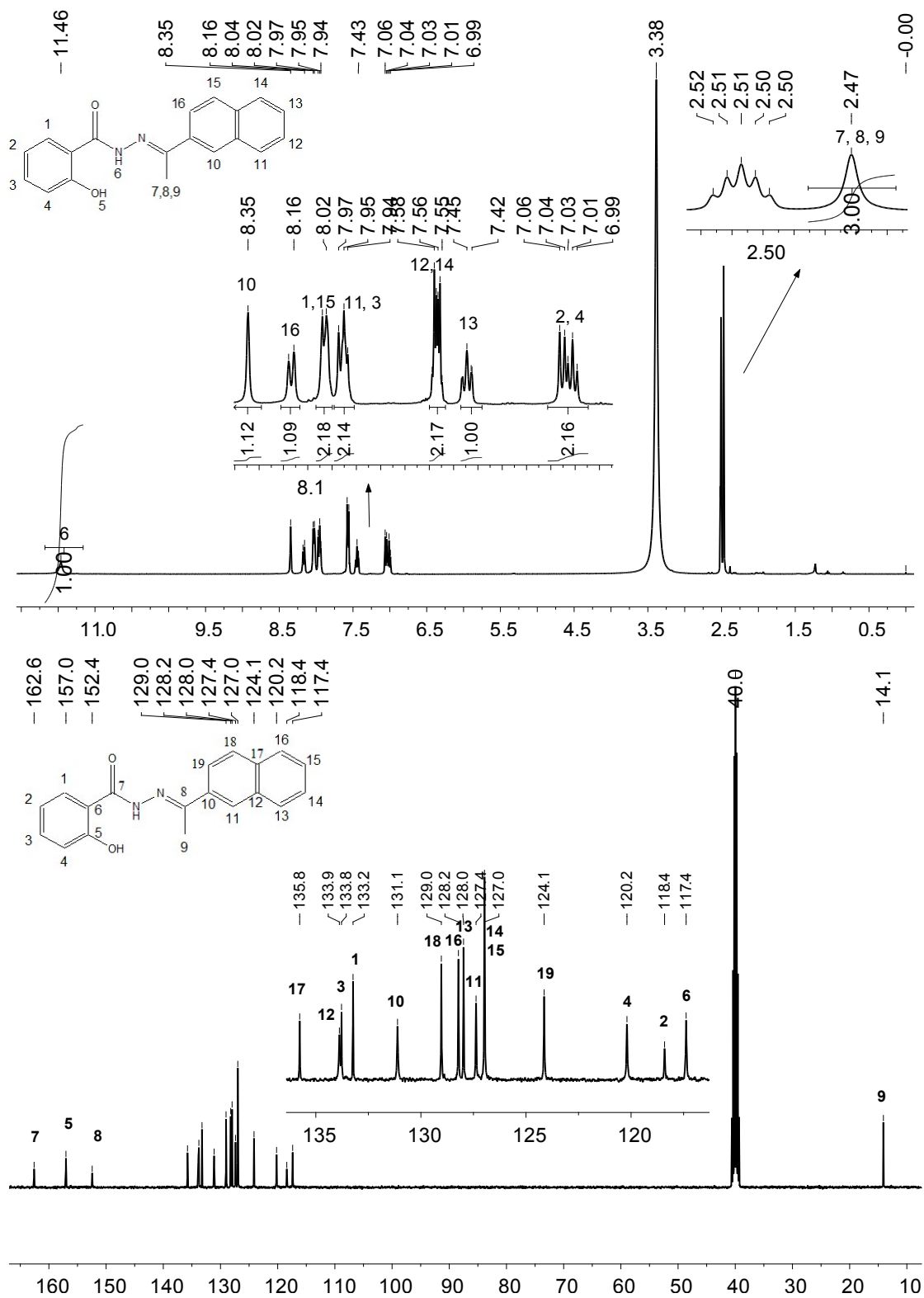


Figure S1 NMR spectra of the free ligand.

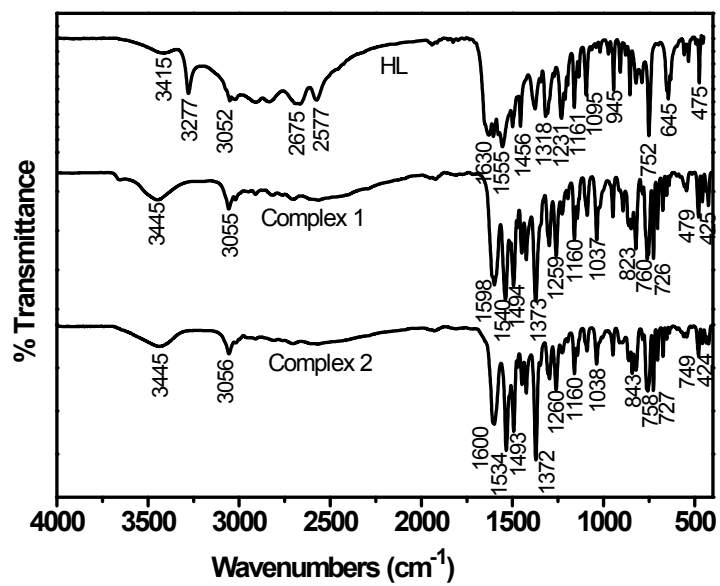


Figure S2 FTIR spectra of the free ligand and the complexes 1 and 2.

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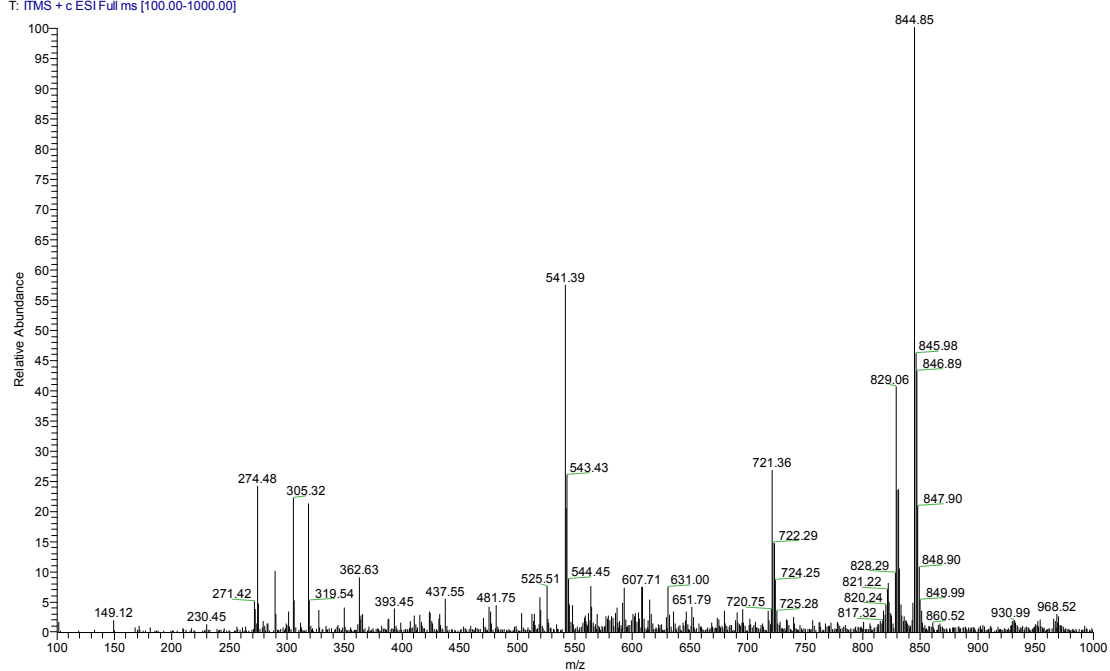


Figure S3 ESI mass spectrum of complex 1.

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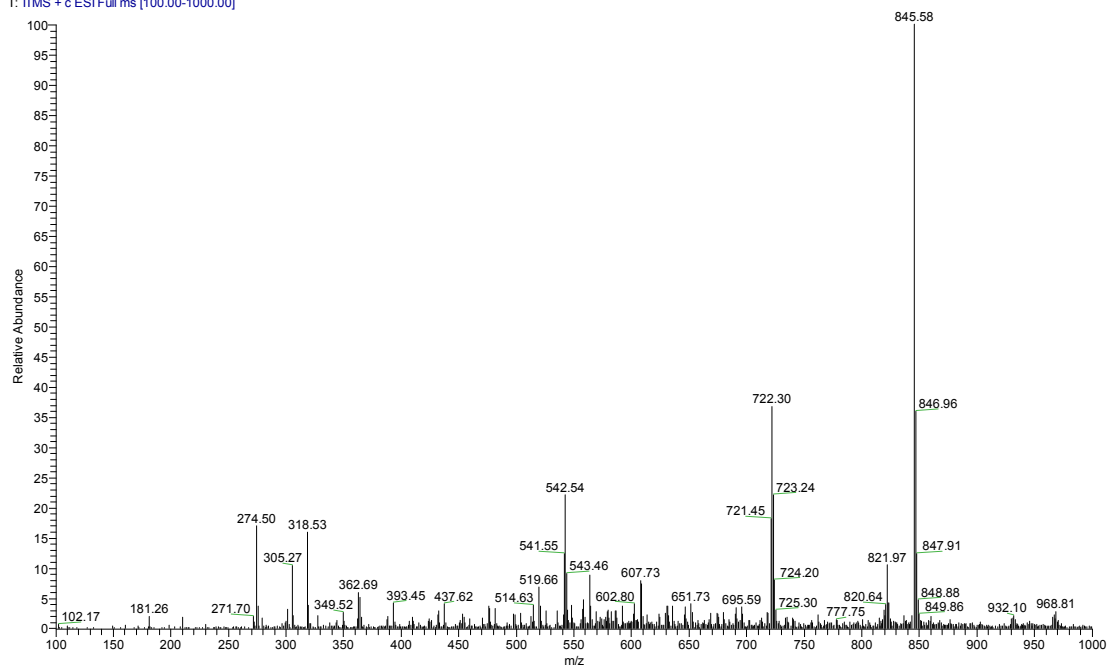


Figure S4 ESI mass spectrum of complex **2**.

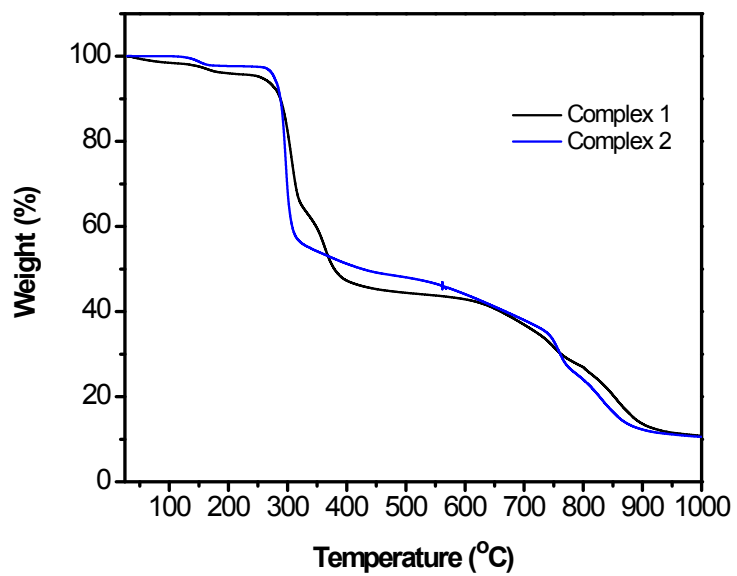


Figure S5 The thermogravimetric analysis curves for the complexes.

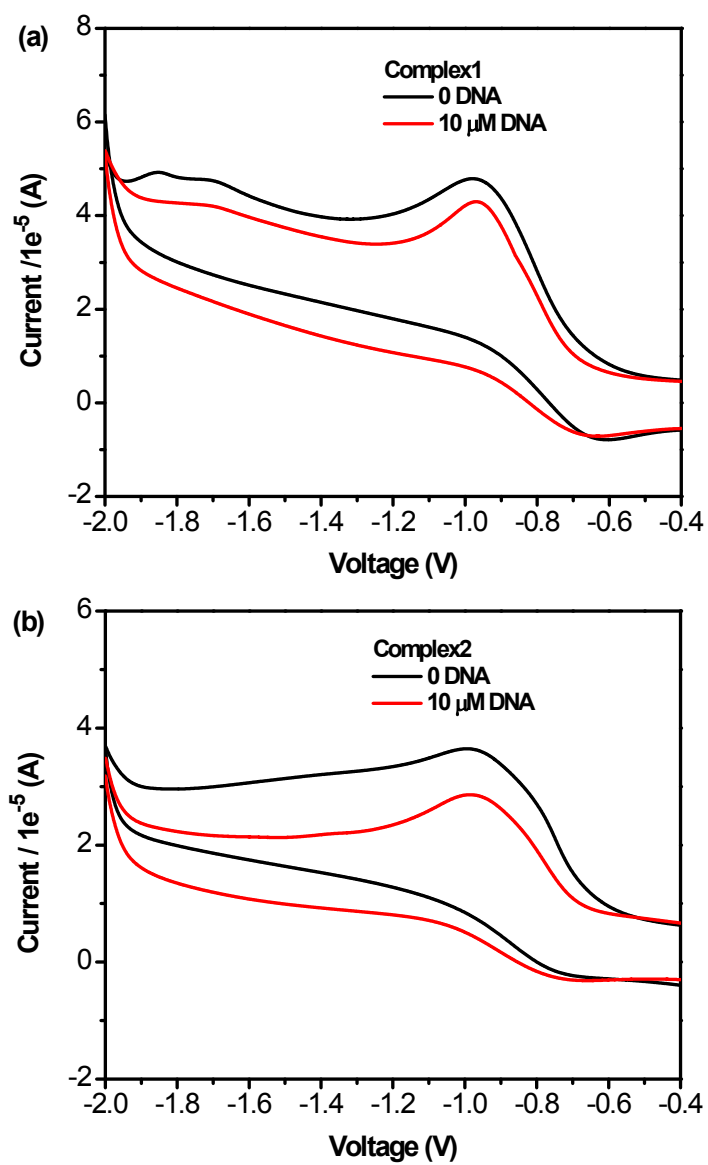


Figure S6 Evolution of the CV of complex 1 (a) and complex 2 in absence (black) and presence (other line) of HS DNA (10 μM) in DMSO/Tris-HCl/NaCl buffer solution.

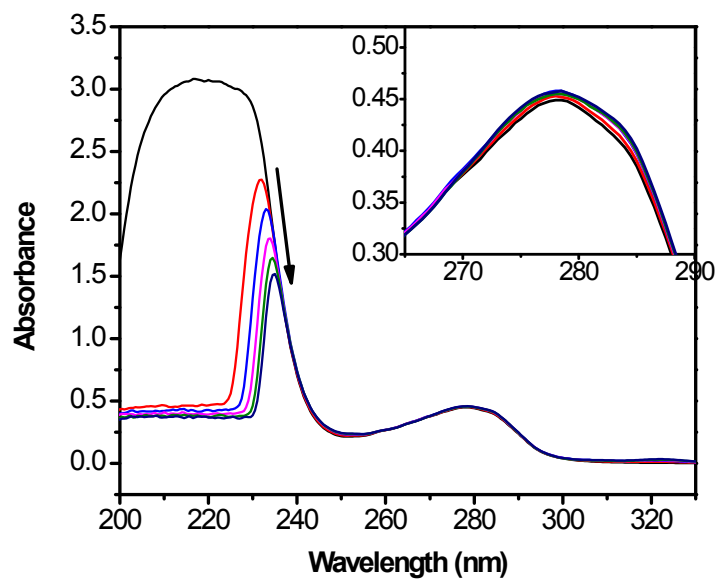


Figure S7 UV-Vis absorption spectra of BSA ($10\ \mu\text{M}$) with increasing concentrations (2-10 μM) of the HL (PBS buffer, pH = 7.2). The arrows show the absorbance changes upon increasing amounts of the complex.

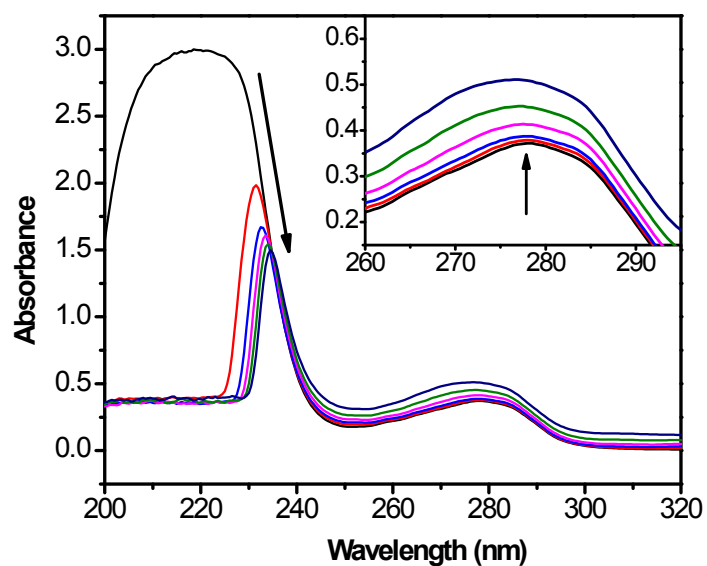


Figure S8 UV-Vis absorption spectra of BSA ($10\ \mu\text{M}$) with increasing concentrations (2-10 μM) of complex 2 (PBS buffer, pH = 7.2). The arrows show the absorbance changes upon increasing amounts of the complex.

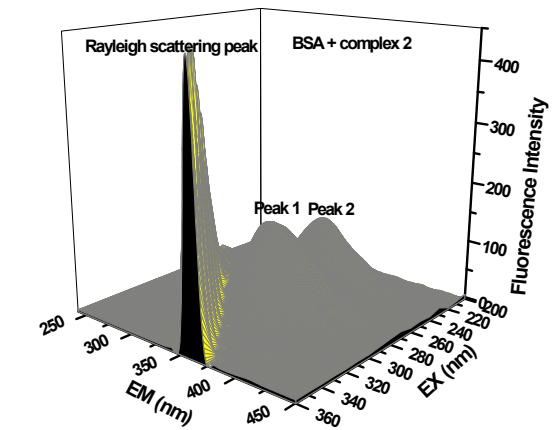
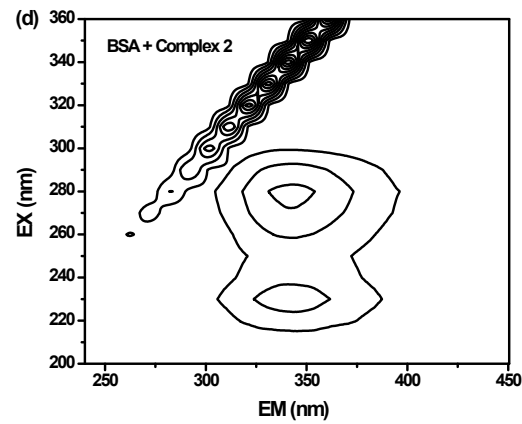
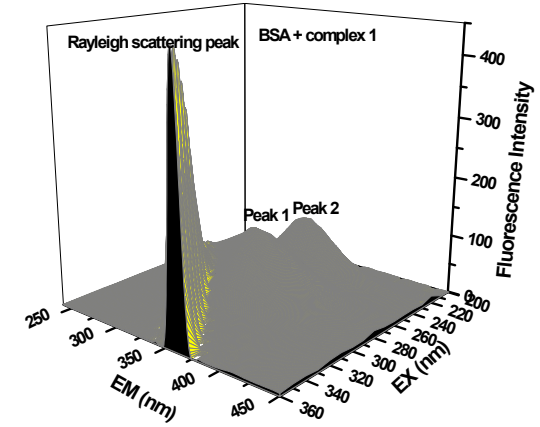
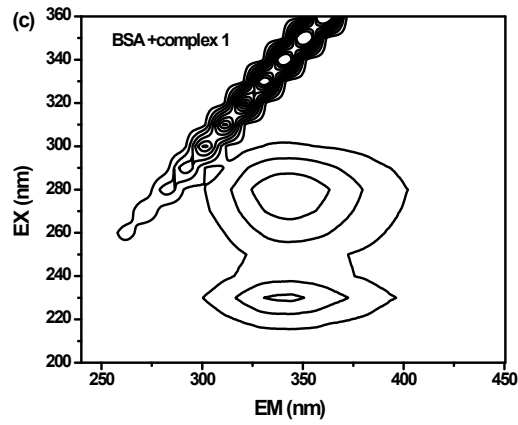
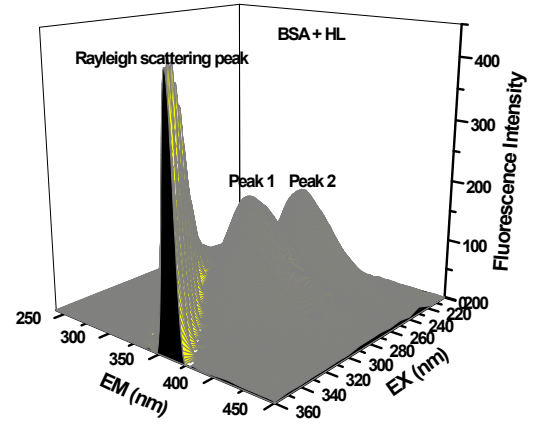
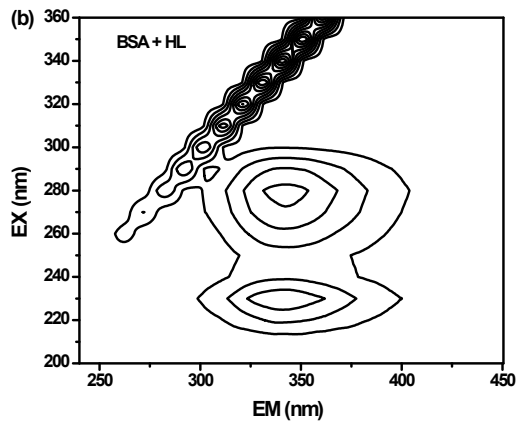
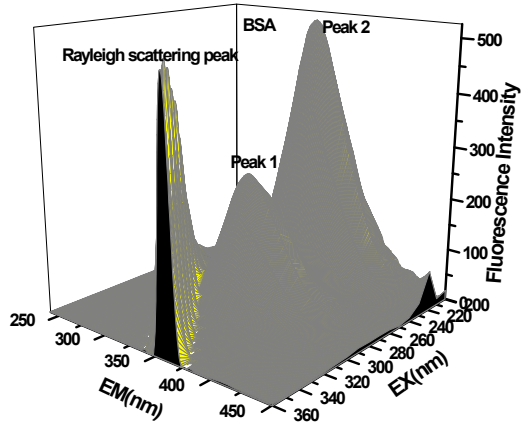
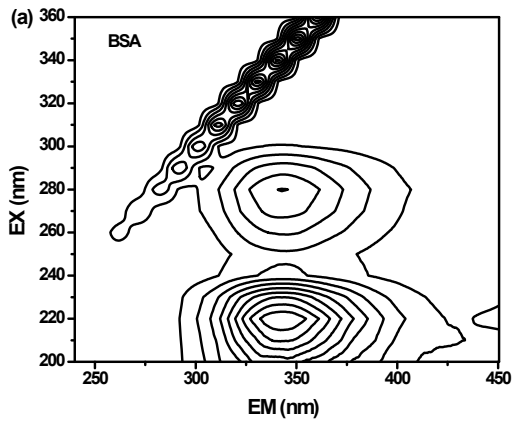


Figure S9 Three-dimensional fluorescence projects and three-dimensional fluorescence contour map of BSA (a) BSA only, (b) BSA + **HL**, (c) BSA + **1** and (d) BSA + **2** ([BSA] = [Compound] = 1.0 μ M).