

## Supplementary Materials

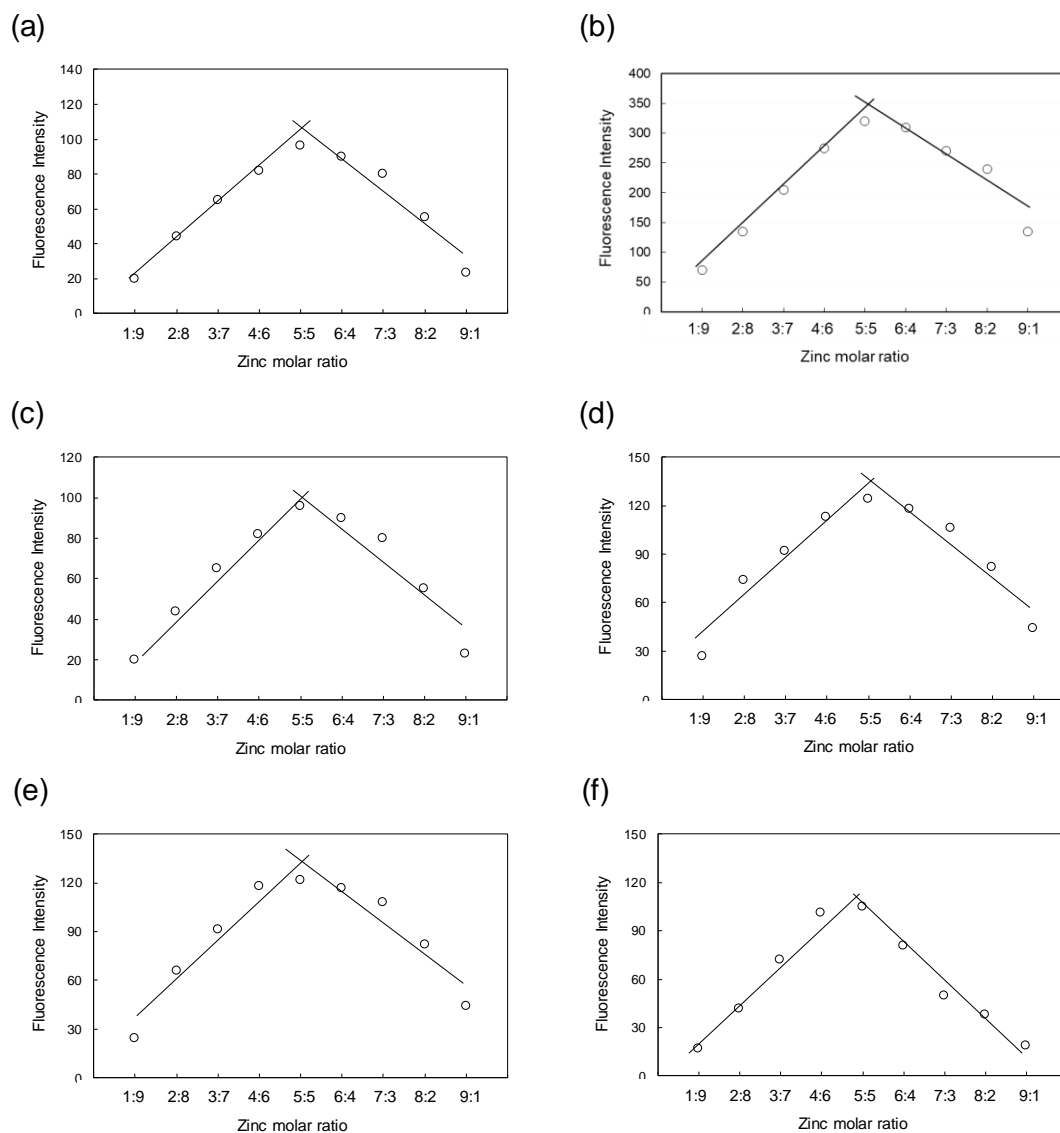


Figure S1. Job's plot analysis of (a) **3a** ( $10^{-5}$  M,  $\lambda_{em} = 381$  nm); (b) **3b** ( $10^{-5}$  M,  $\lambda_{em} = 367$  nm); (c) **4a** ( $10^{-5}$  M,  $\lambda_{em} = 353$  nm); (d) **4b** ( $10^{-5}$  M,  $\lambda_{em} = 360$  nm); (e) **5a** ( $10^{-5}$  M,  $\lambda_{em} = 377$  nm); (f) **5b** ( $10^{-5}$  M,  $\lambda_{em} = 395$  nm). The total concentration of each compound and Zn<sup>2+</sup> are 10  $\mu$ M in HEPES buffer (100 mM, 5% DMSO, pH = 7.4).  $\lambda_{em}$  = emission wavelength.

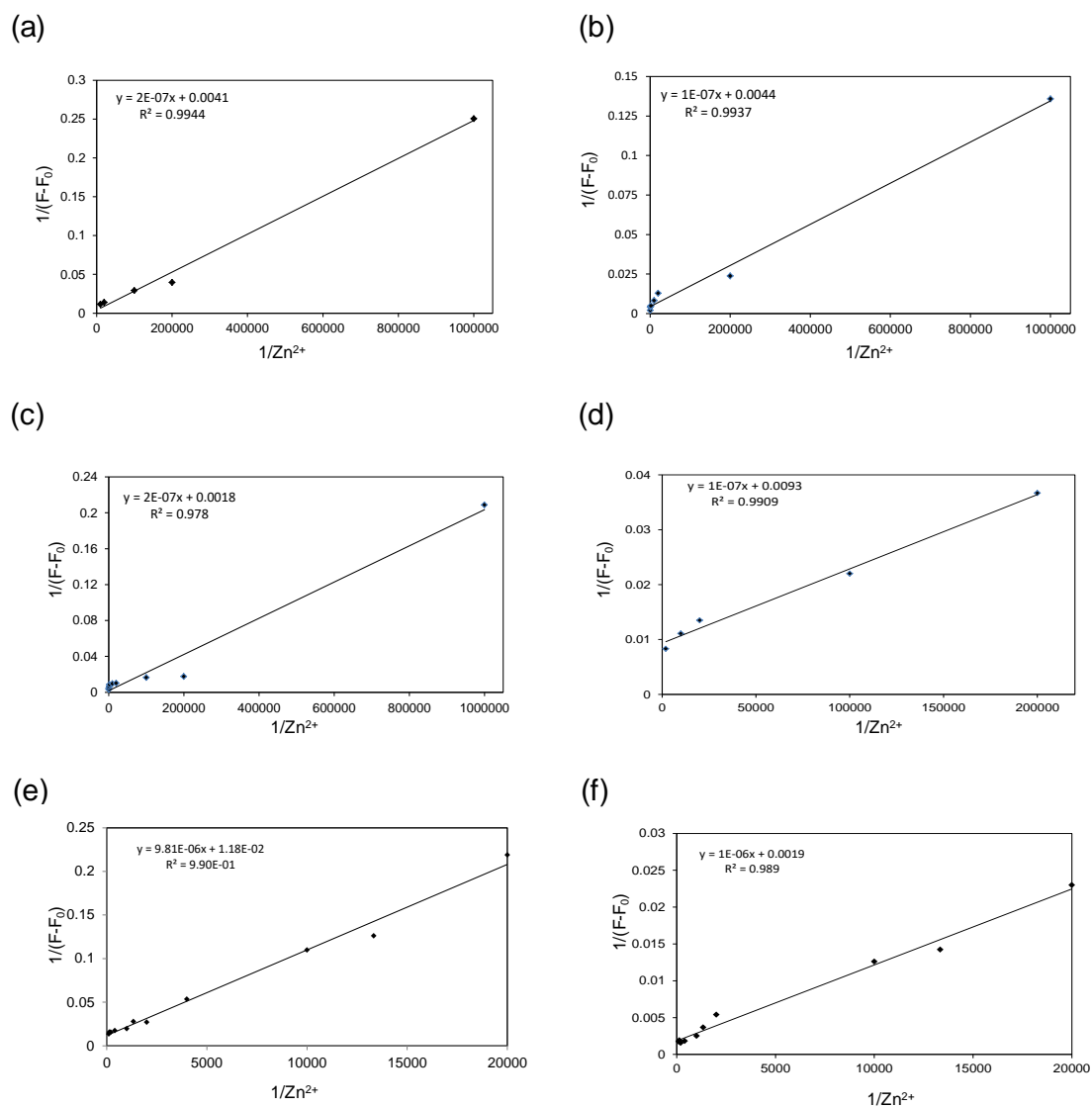


Figure S2. Typical Benesi-Hildebrand analysis of (a) **3a**, (b) **3b**, (c) **4a**, (d) **4b**, (e) **5a** and (f) **5b**.

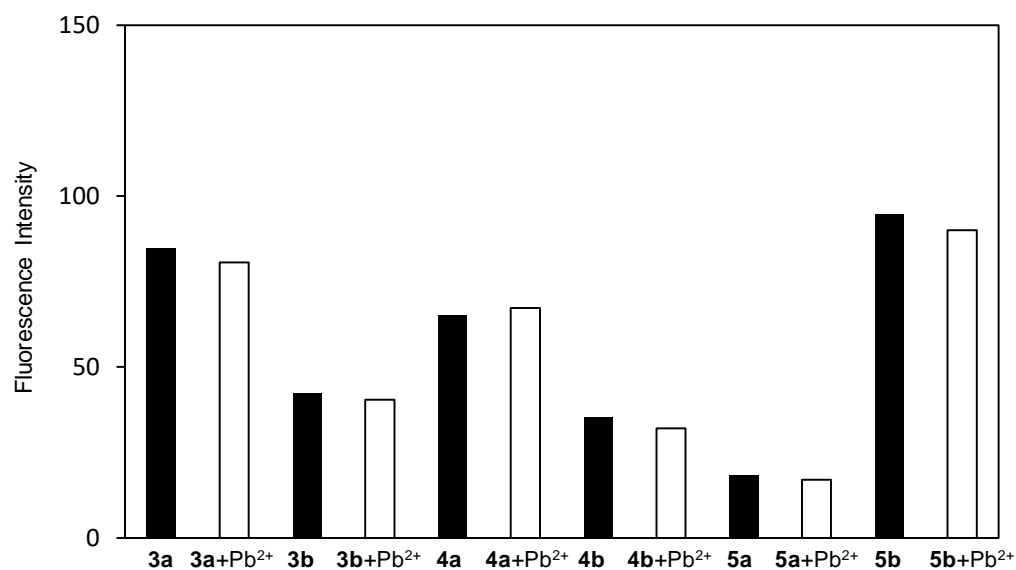


Figure S3. Fluorescence response of (a) **3a** ( $10^{-5}$  M,  $\lambda_{em} = 381$  nm); (b) **3b** ( $10^{-5}$  M,  $\lambda_{em} = 367$  nm); (c) **4a** ( $10^{-5}$  M,  $\lambda_{em} = 353$  nm); (d) **4b** ( $10^{-5}$  M,  $\lambda_{em} = 360$  nm); (e) **5a** ( $10^{-5}$  M,  $\lambda_{em} = 377$  nm); (f) **5b** ( $10^{-5}$  M,  $\lambda_{em} = 395$  nm) upon addition of Pb<sup>2+</sup> in HEPES buffer (100 mM, 5% DMSO, pH = 7.4).  $\lambda_{em}$  = emission wavelength.