

-----Electronic Supporting Information-----

**A turn-on fluorescent probe for phytic acid based on ferric ions-
modulated glutathione-capped silver nanoclusters**

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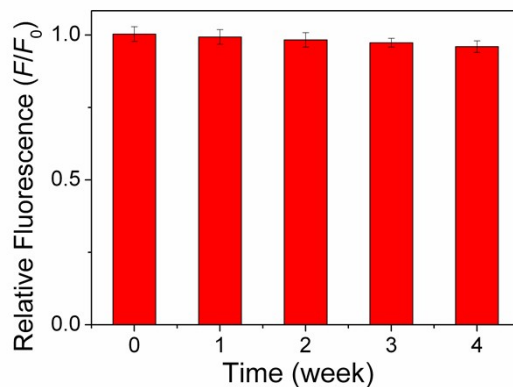


Fig. S1 Stability investigation of GSH@AgNCs stored over the different time intervals at 4 °C.

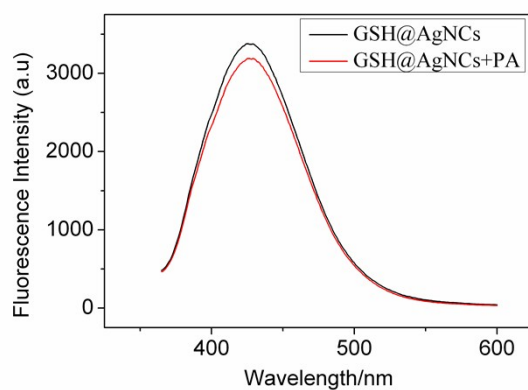


Fig. S2 Fluorescence emission spectra of GSH@AgNCs and GSH@AgNCs in the presence of 50 μM PA.

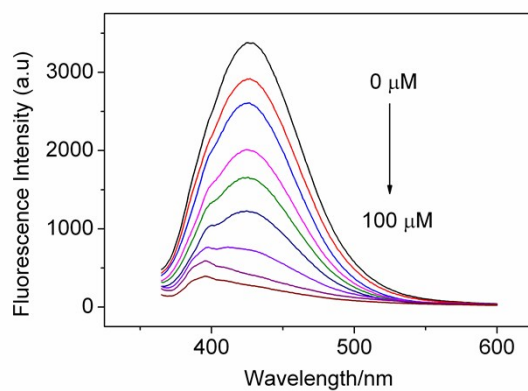


Fig. S3 Fluorescence emission spectra of GSH@AgNCs in the presence of different concentration of Fe^{3+} ions. From top to down, the concentration of Fe^{3+} is 0, 5, 10, 15, 20, 30, 40, 50 and 100 μM , respectively.

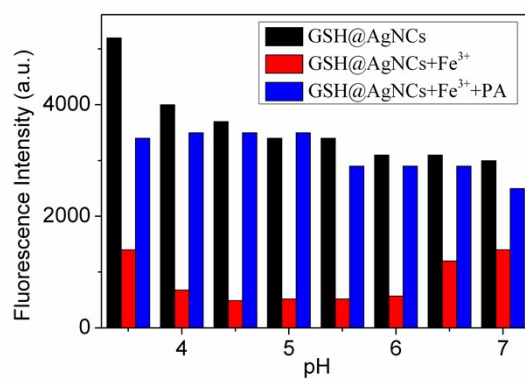


Fig. S4 Effect of pH on the fluorescence intensity of GSH@AgNCs, GSH@AgNCs with 50 μM Fe^{3+} ions, and GSH@AgNCs with 50 μM Fe^{3+} ions and 50 μM PA.

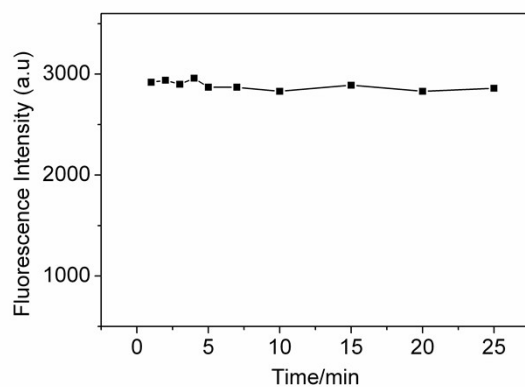


Fig. S5 The Effect of reaction time between Fe^{3+} ions and PA on the fluorescence intensity.

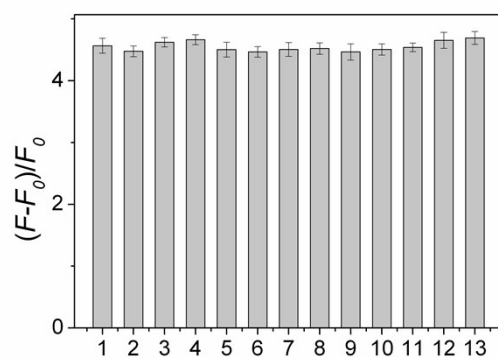


Fig. S6 Fluorescence response of Fe³⁺-GSH@AgNCs system to PA in the presence of competitive substances. The concentration of PA and of all competitive substances was 20 μ M. From 1 to 13 is only PA, Cl⁻, CO₃²⁻, SO₄²⁻, Mg²⁺, Cu²⁺, Ca²⁺, K⁺, Zn²⁺, Al³⁺, EDTA, lysine, and threonine, respectively.