Anti-aggregation of gold nanoparticles based colorimetric sensor for glutathione with excellent selectivity and sensitivity

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Fig. S1 $^1$H NMR of spectrum of ppzdtc ligand in D$_2$O.
Fig. S2 The TEM images of the aggregated AuNPs in solution with the presence of 1.5 μM ppzdtc and 0.25 μM Cys.
pH effect on the determination of GSH

**Fig. S3** Calibration curves of $A_{520}/A_{640}$ vs. GSH concentration in the AuNPs suspension under different pH values.
Dynamic range dependent on the concentration of aggregation reagent ppzdtc

**Fig. S4** Calibration curve of \( \frac{A_{520}}{A_{640}} \) vs. GSH concentration under the concentration of aggregation reagent ppzdtc of 5.4 μM.