Supporting Information

![Graphs](image)

**Fig. S1** Effects of (A) pH, (B) Fe$^{2+}$ concentration, and (C) reaction time on the fluorescence response of NAC-AuNCs. The concentrations of H$_2$O$_2$ used in above experiments are all 4.44 μM.

**Fig. S2** Fluorescence responses of NAC-AuNCs toward ROS (6.66 μM).