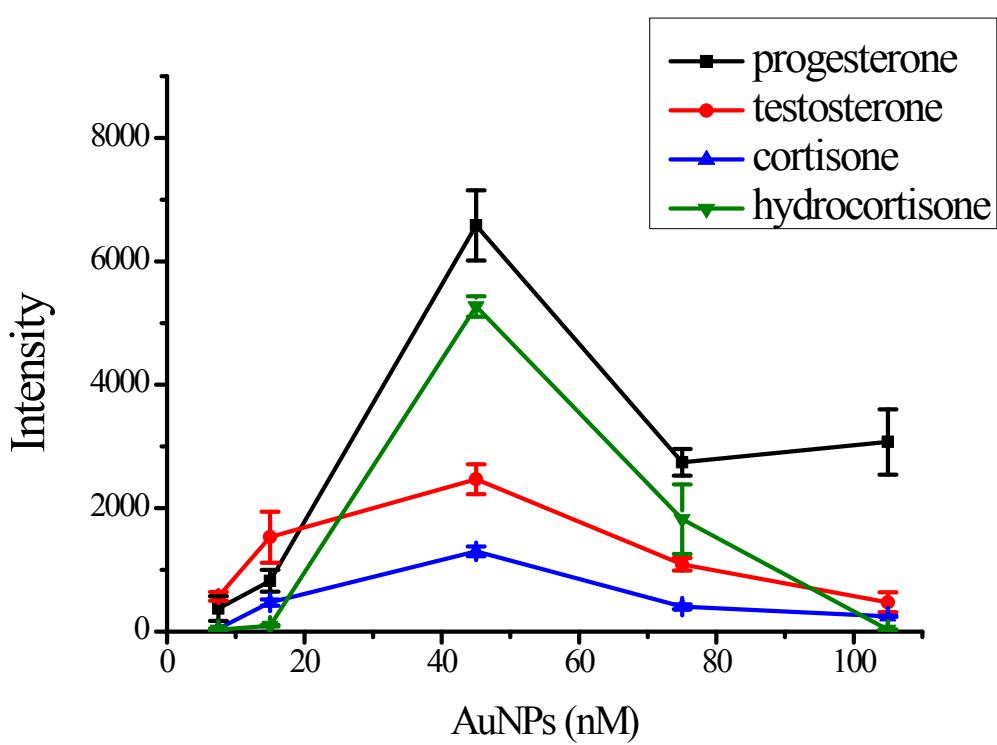
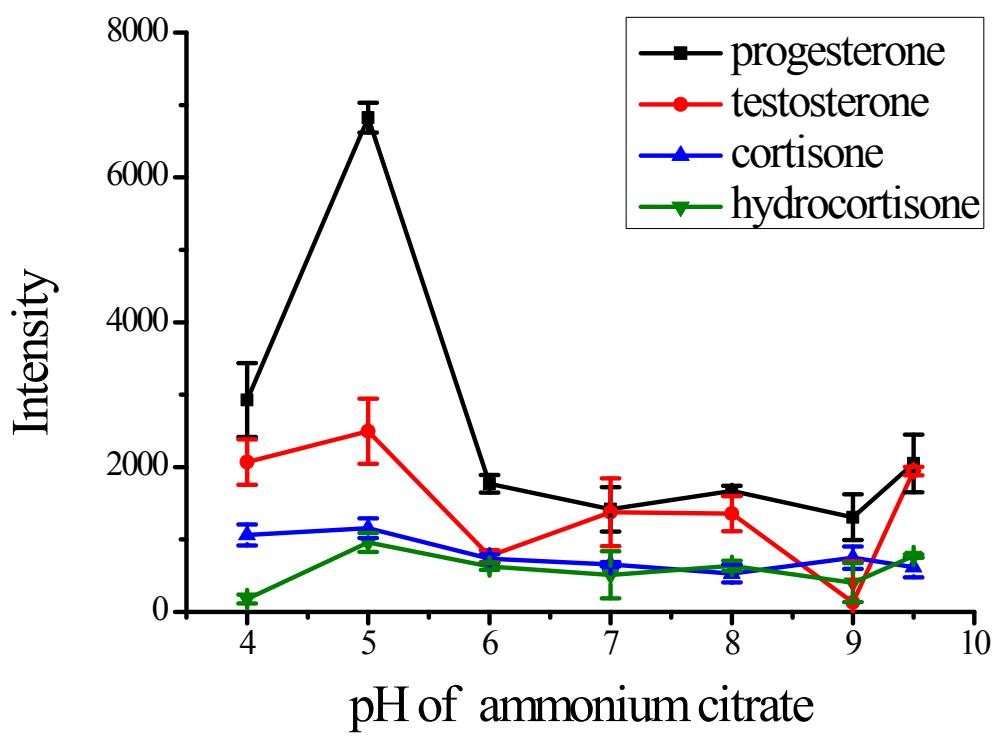


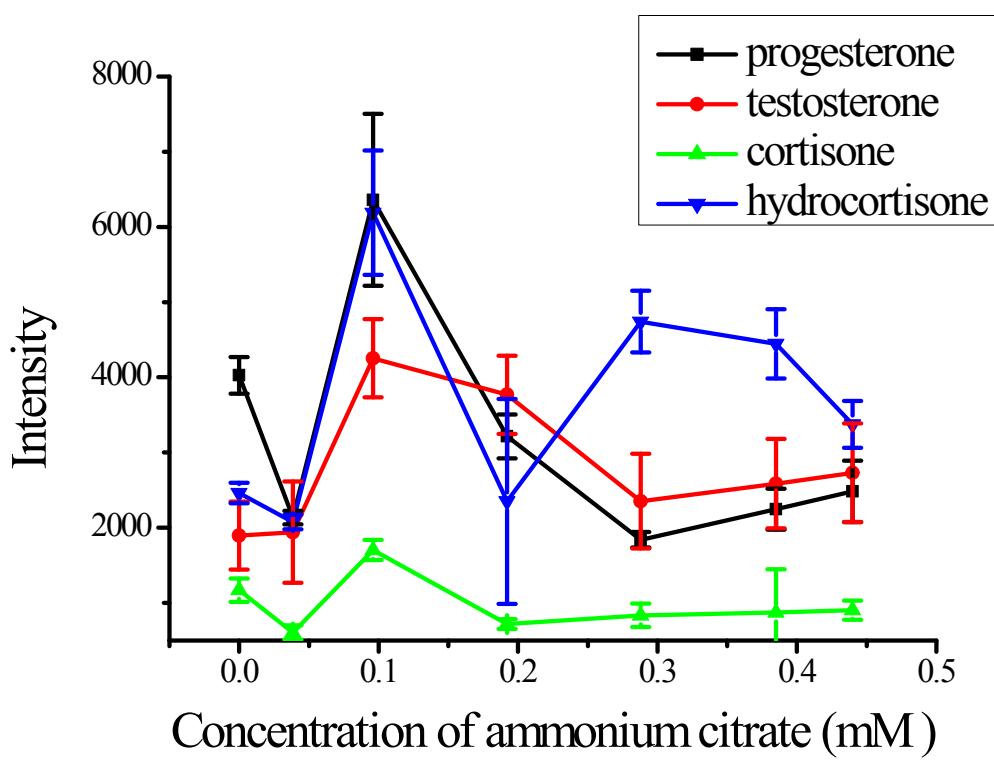
**Fig. S1.** The chemical structures of four steroid hormones.



**Fig. S2.** The signal intensities of the four steroid hormones at various concentrations (7.5, 15, 45, 75 and 105 nM) of AuNPs and 20.62  $\mu\text{J}$  of laser fluence. (error bar, n=3)



**Fig. S3** The signal intensity of four steroid hormones at different pH.



**Fig. S4** The signal intensity of four steroid hormones at different buffer concentration in pH5.