Electronic Supplementary Material (ESI) for Analytical Methods. This journal is © The Royal Society of Chemistry 2014

Electronic Supporting Information (ESI)

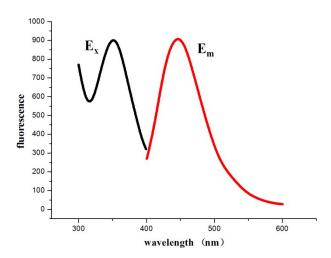


Fig. S1. The photoluminescence excitation and emission spectra. FA: 20 μ M; HCl: 20 mM; NaNO₂: 10 μ M; the volume of 1 M NaOH: 20 μ L; incubation time: 10 min; UV radiation time: 5 min.

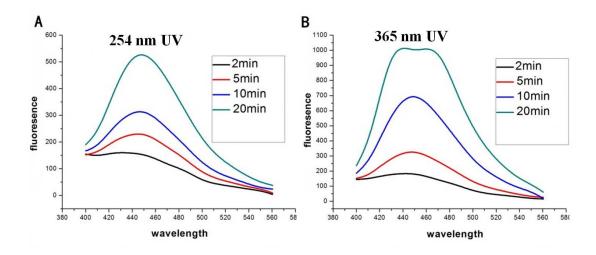


Fig. S2. The fluorescence spectra of FA under different UV radiation time with other conditions being fixed. FA: 20 μ M; NaNO₂: 0.5 μ M; HCl: 10 mM; the volume of 1 M NaOH: 10 μ L; incubation time: 10 min; the number of UV radiation: (A): 254 nm; (B): 365 nm.

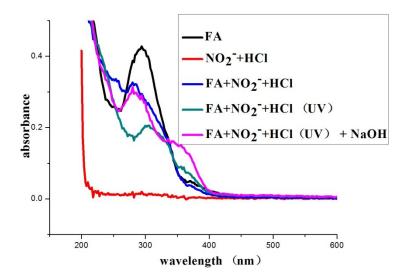


Fig. S3. Absorbance spectra of FA with different conditions. Folic acid: $16 \mu M$, HCl: 10 mM; the volume of 1 M NaOH: $10 \mu L$; incubation time: 10 min; UV radiation time: 3 min.

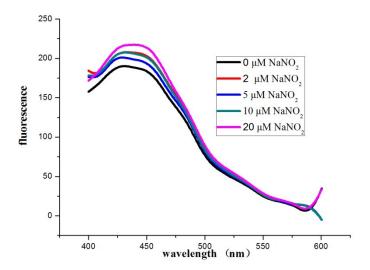


Fig. S4. The fluorescence spectra of FA with the addition of different concentrations of NO_2 - after UV exposure for 5 min. Folic acid: 16 μ M, HCl: 10 mM; the volume of 1 M NaOH: 10 μ L; incubation time: 10 min.

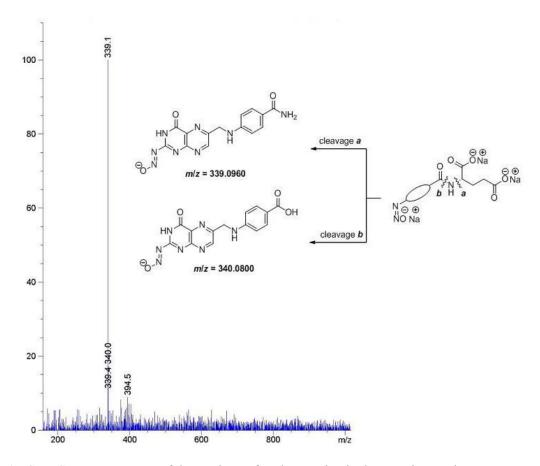


Fig. S5. ESI mass spectrum of the products after the reaction in the negative mode.