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Electronic Supporting Information

A simple and label-free fluorescence detection of ascorbic acid in rat
brain microdialysates in the presence of catecholamines

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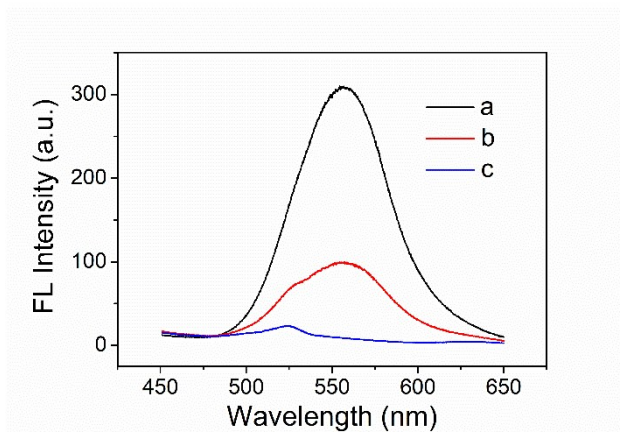


Fig. S1 The fluorescence spectra of Ag^+ and OPD (a), Ag^+ + OPD + AA (b), and Ag^+

+ AA + OPD (c.) The final concentrations of OPD, Ag^+ , and AA are $180 \mu\text{M}$, $96 \mu\text{M}$, and $40 \mu\text{M}$, respectively.

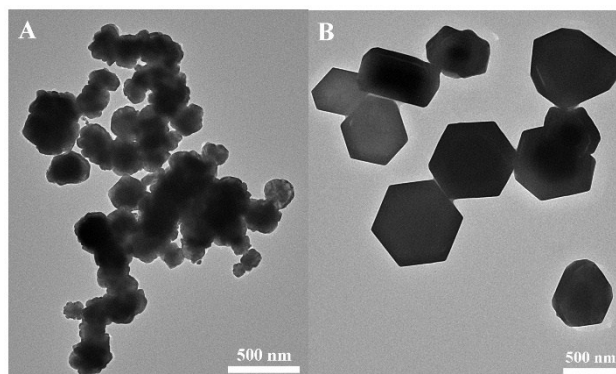


Fig. S2 TEM images of silver nanoparticles formed during the reaction process of Ag^+ and OPD (A) and Ag^+ and AA (B).

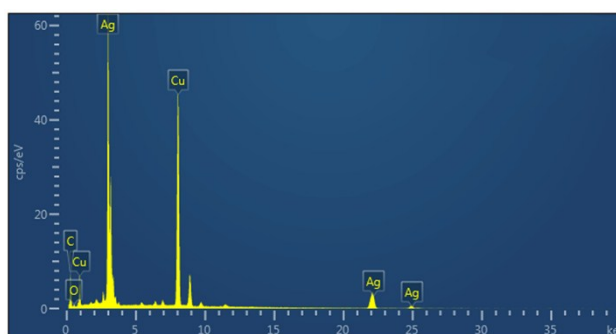


Fig. S3 The EDS pattern of silver nanoparticles formed during the reaction process of Ag^+ and OPD.

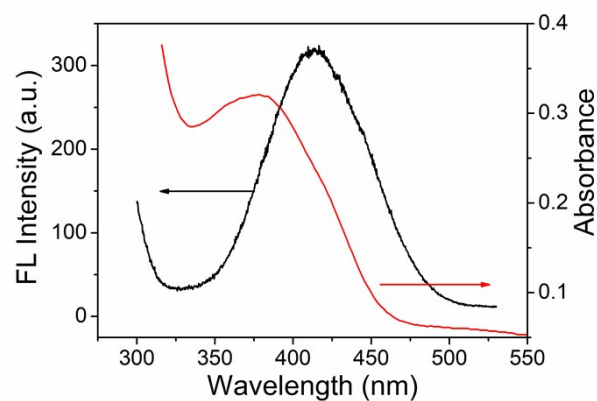


Fig. S4 Spectral overlap: absorption spectrum (red) and excitation spectrum of Ag^+ -

OPD system (black).

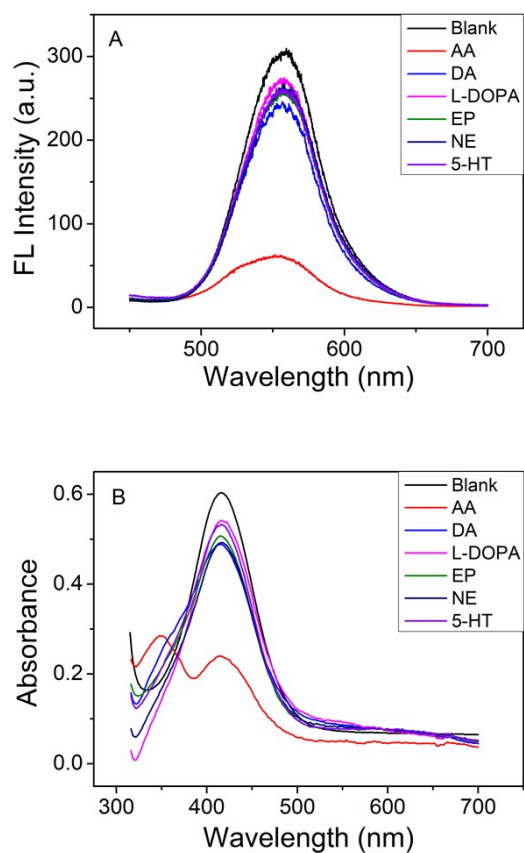


Fig. S5 The fluorescence emission (A) and absorbance spectra (B) of Ag⁺-OPD in the absence and presence of catecholamines and AA, where the concentrations of catecholamines and AA are 30 μ M.