Electronic Supplementary Material (ESI) for New Journal of Chemistry

Supplementary data

A label-free fluorescent molecular switch for Cu^{2+} based on metal ion-triggered DNA-cleaving DNAzyme and DNA intercalator

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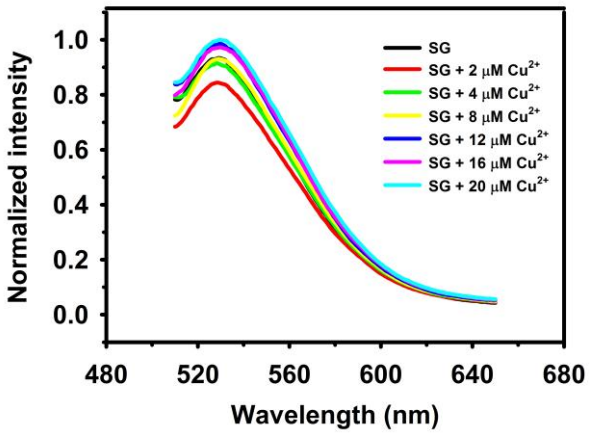

Fig. S1. Fluorescence emission spectra of SG in the presence of different concentrations of Cu^{2+} from 2 to 20 μM and 0.2 mM ascorbate. λ_{ex} = 490 nm.

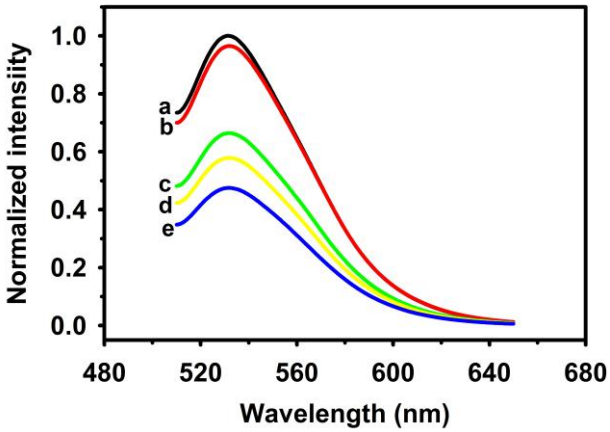

Fig. S2. Application of the DNAzyme sensor to the analysis of Cu^{2+} in drinking water samples: (a) blank; (b) drinking water; (c) drinking water + 0.6 μM Cu^{2+}; (d) drinking water + 0.8 μM Cu^{2+}; (e) drinking water + 1.0 μM Cu^{2+}. λ_{ex} = 490 nm.