

Supporting Information

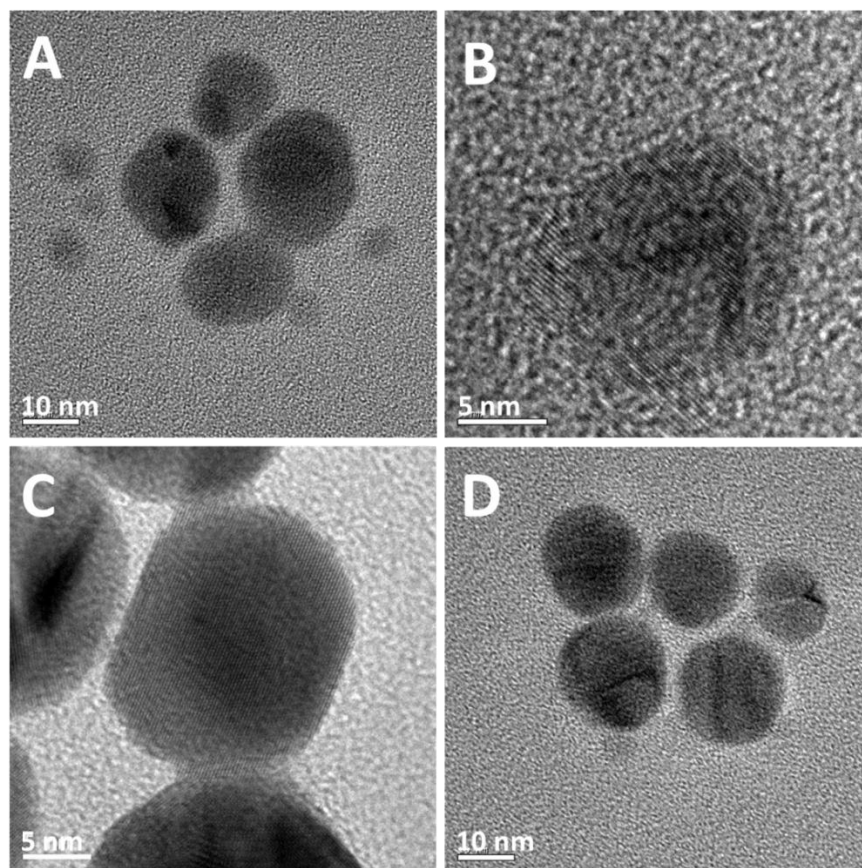


Figure S1. HRTEM images of Ag-TPDT NPs (A), CD-Ag-TPDT NPs (B) BDAC-Ag-TPDT NPs (C) and BDAC-CD-Ag-TPDT/AA NPs (D).

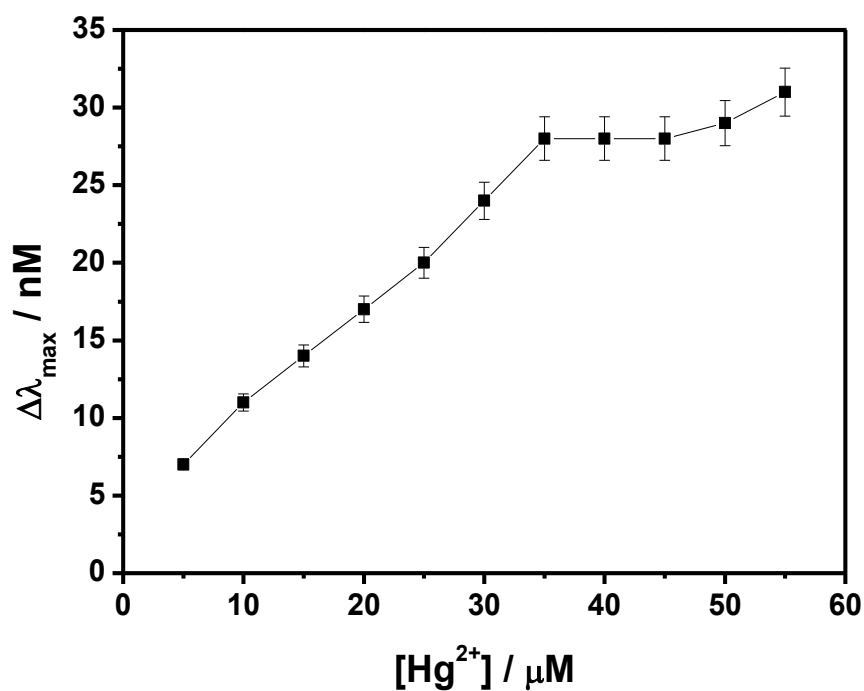


Figure S2. Calibration plot obtained from the difference in SPR band maximum ($\Delta\lambda_{\max}$) against concentration of Hg(II) ions for BDAC-CD-Ag-TPDT/AA NPs upon each addition of 5 μM of Hg (II) ions.

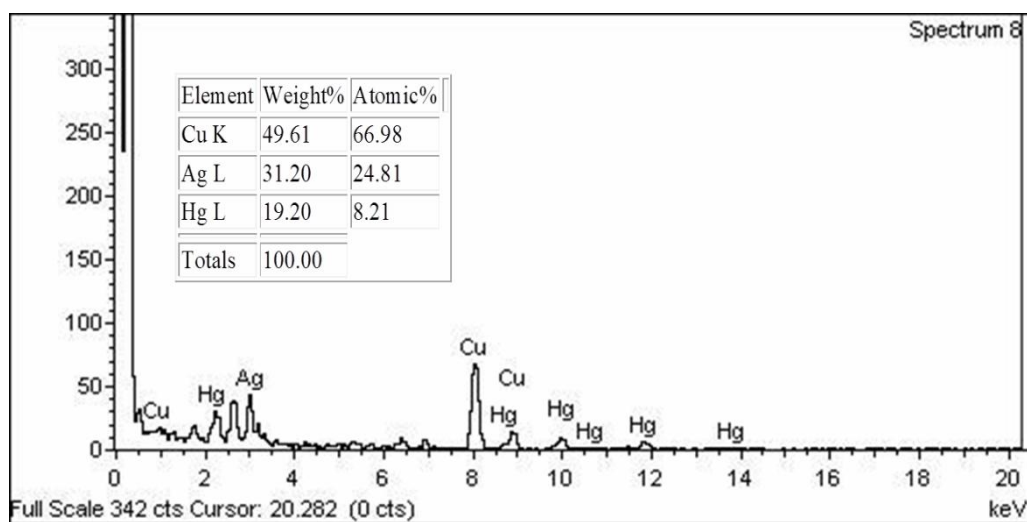


Figure S3. EDX spectrum of BDAC-CD-Ag-TPDT/AA NPs after the addition of 55 μM Hg(II) ions.