Electronic Supplementary Material (ESI) for RSC Advances.

Supporting Information

A Dual-Stabilizers-Capped CdSe Quantum Dot for "Off–On" Electrochemiluminescence Biosensing of Thrombin by Target-Triggered Multiple Amplification

Guifen Jie*, Kai Chen, Xiao chun Wang, Zhengkun Lu

Key Laboratory of Sensor Analysis of Tumor Marker, Ministry of Education, Qingdao University of Science and Technology, 266042, P. R. China

Table of Contents

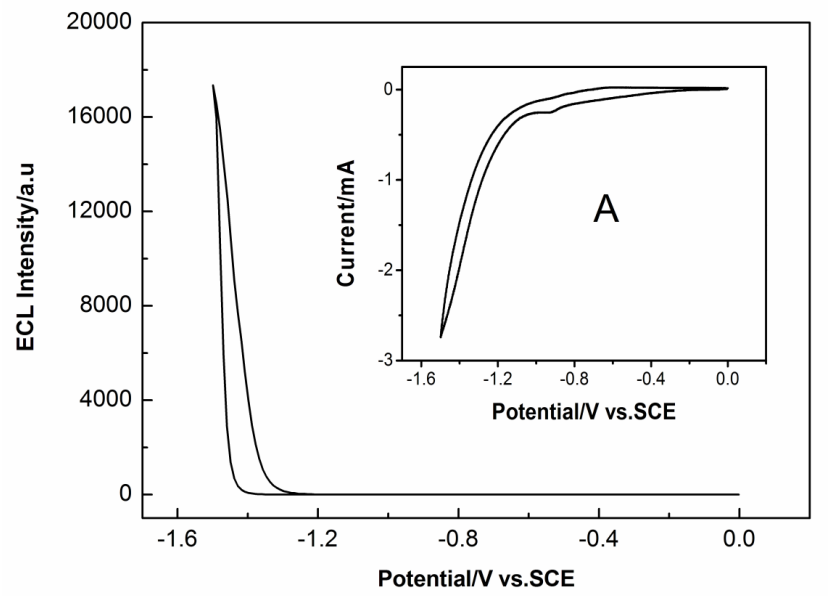

Figure S1. ECL–potential curve and cyclic voltammogram (inset) of the dual-stabilizers-capped CdSe QDs.

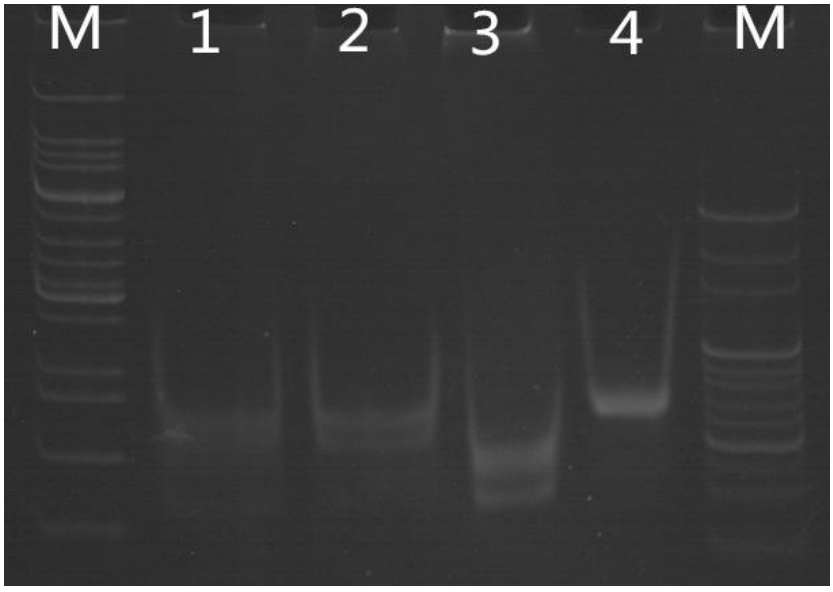

Figure S2. Nondenaturating PAGE analysis of reaction products by enzyme-aided multiple DNA cycle amplification. Lane M: the DNA ladder marker; Lanes 1: Hairpin DNA+Primer DNA; Lanes 2: Hairpin DNA+ Primer DNA+Bst DNA polymerase+dNTPs; Lanes 3: Hairpin DNA+ Primer DNA+ Bst DNA polymerase + target thrombin+dNTPs, Lanes 4: Hairpin DNA+ Primer DNA+ Bst DNA polymerase+ target thrombin +dNTPs+lambda exonuclease.

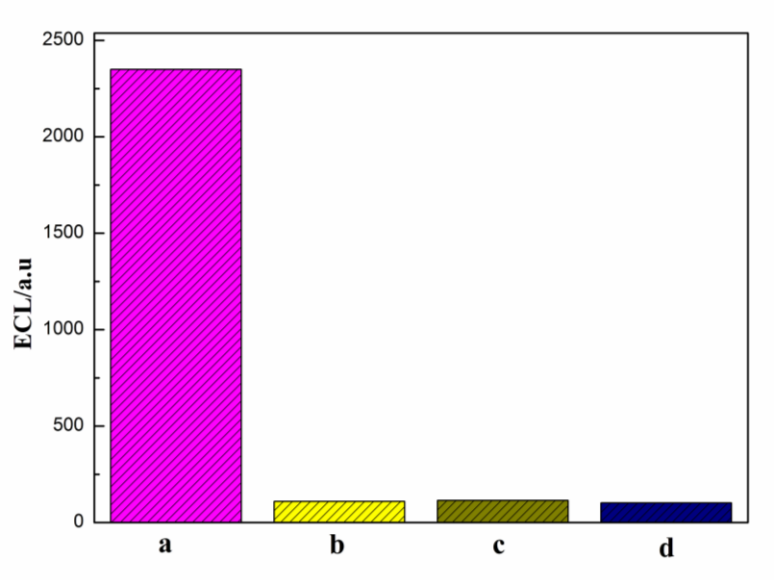

Figure S3. Selective detection of thrombin in the presence of interfering proteins. The concentration of interfering proteins was 0.1 nM, and thrombin concentration was 0.01 nM. (a) thrombin, (b) blank, (c) BSA, (d) lysozyme.