

Supplementary Information

Ultra-Sensitive Detection of Cyclin D1 by Self-Enhanced ECL Immunosensor Based on Bi_2S_3 Quantum Dots

Lixiao Liu, Anzi Yang, Wen Luo, Huaxiao Liu, Xuan Liu, Wenbo Zhao*

National and Local Joint Engineering Research Center of Biomedical Functional Materials, Jiangsu Key

Laboratory of Biofunctional Materials, College of Chemistry and Materials Science, Nanjing Normal

University, Nanjing 210023, P. R. China. Tel.: +86-25-8589-1536; fax: +86 25 83598280.

Corresponding author E-mail addresses: zhaowenbo@njnu.edu.cn (W. Zhao)

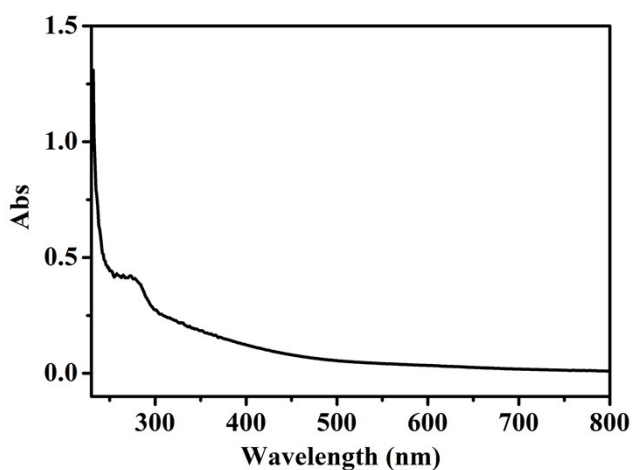


Fig. S1 UV-Vis absorption spectrum of Bi_2S_3 QDs.

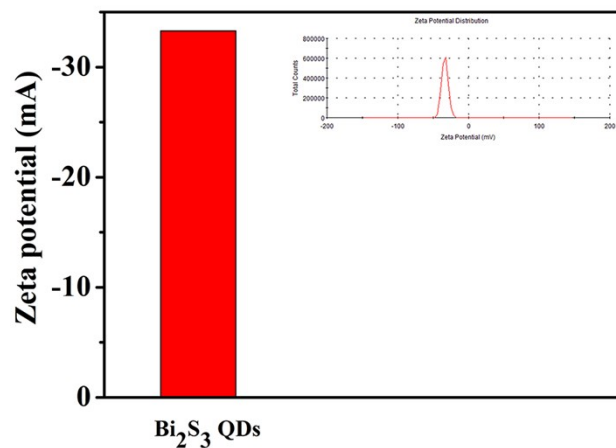


Fig. S2 Zeta potential characterization of Bi_2S_3 QDs. (The illustration shows the measured potential diagram).

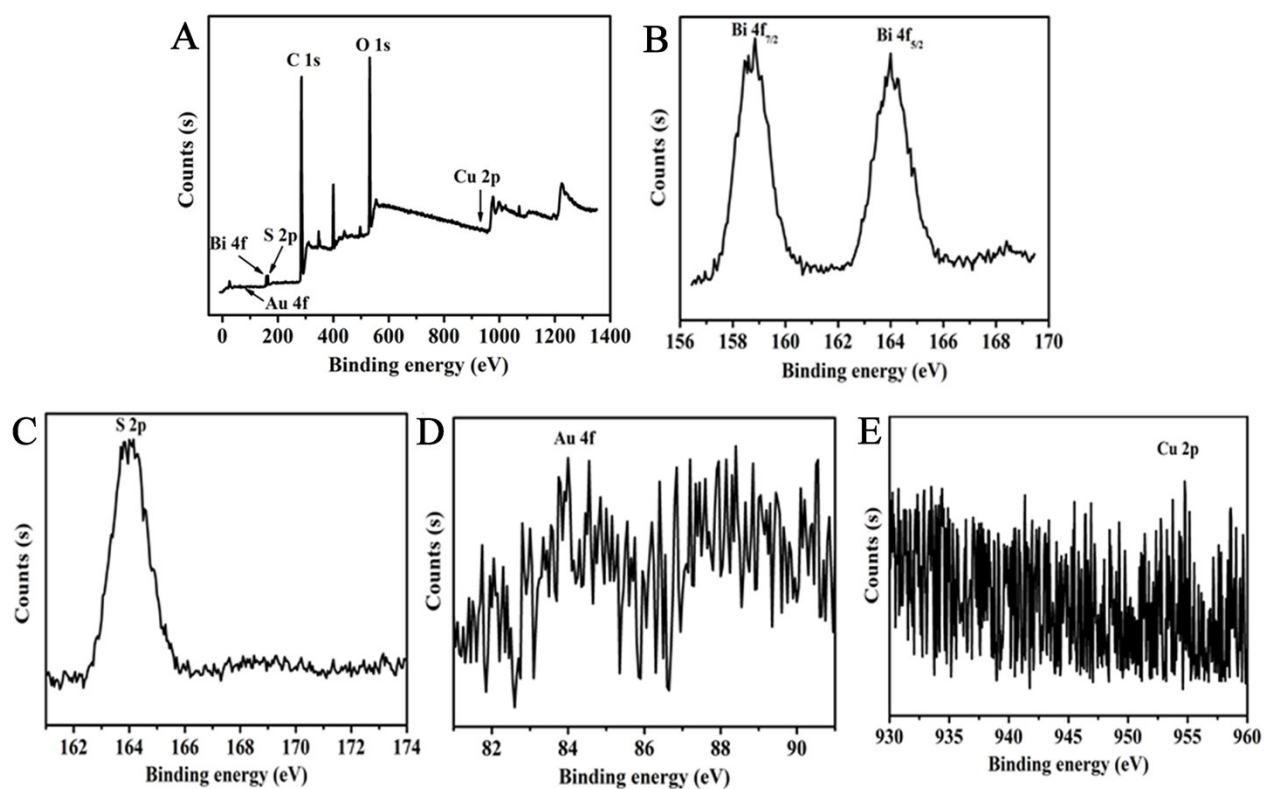


Fig. S3 XPS analysis of $\text{Au@Cu-Bi}_2\text{S}_3$ QDs. (A) XPS survey spectrum of the $\text{Au@Cu-Bi}_2\text{S}_3$ QDs; (B) Bi 4f; (C) S 2p; (D) Au 4f; (E) Cu 2p.

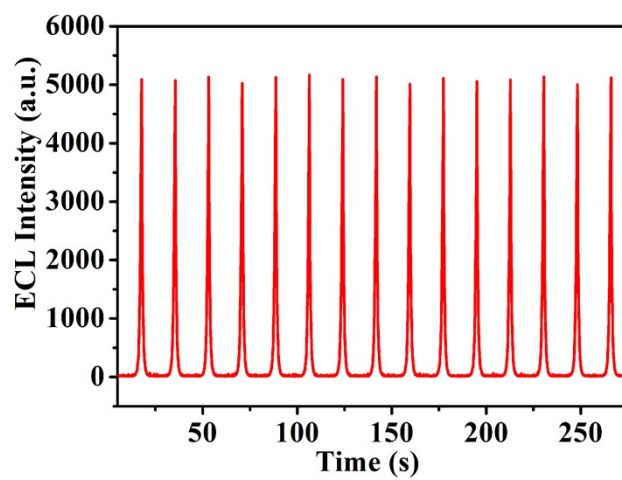


Fig. S4 ECL stability of Au@Cu-Bi₂S₃ QDs.