

Supporting information

A Hemin–Graphene Nanocomposite-Based Aptasensor for Ultrasensitive Colorimetric Quantification of Leukaemia Cells Using Magnetic Enrichment

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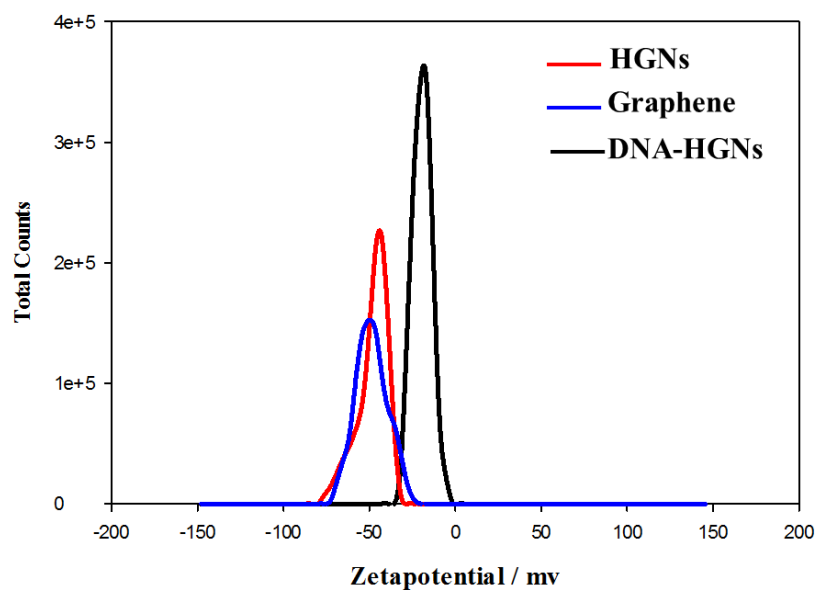


Figure S1. Zeta potential of HGNs, Graphene and DNA-HGNs.

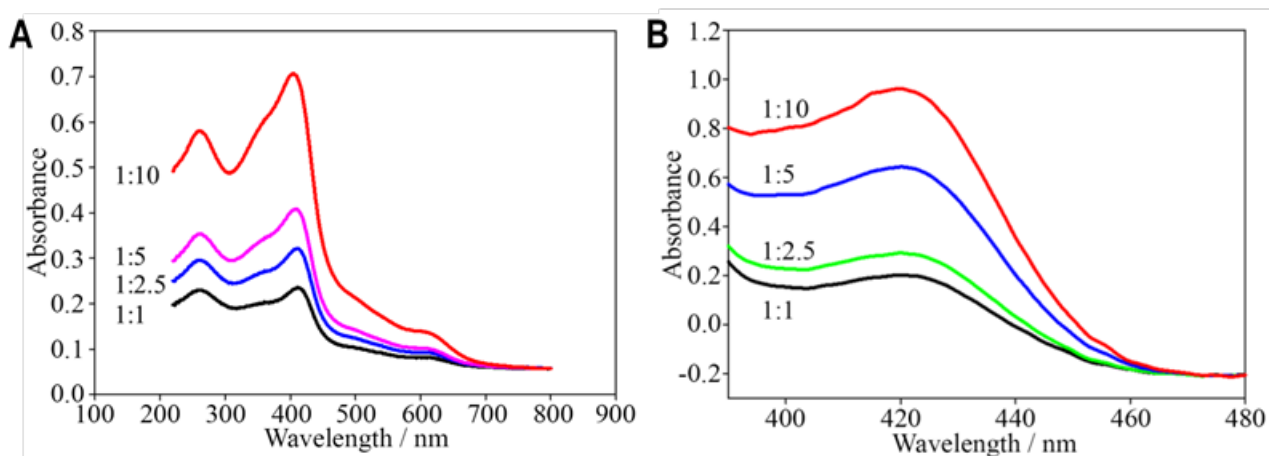


Figure S2. UV spectroscopy characterization and activity test of HGNs prepared with various weight ratios of GO to hemin. Graphene oxide/hemin ratios from 1:1 to 1:10 were tested in the preparation of HGNs, and the products were analyzed by UV spectroscopy (A) and for their peroxidase activities using ABTS as a substrate (B).

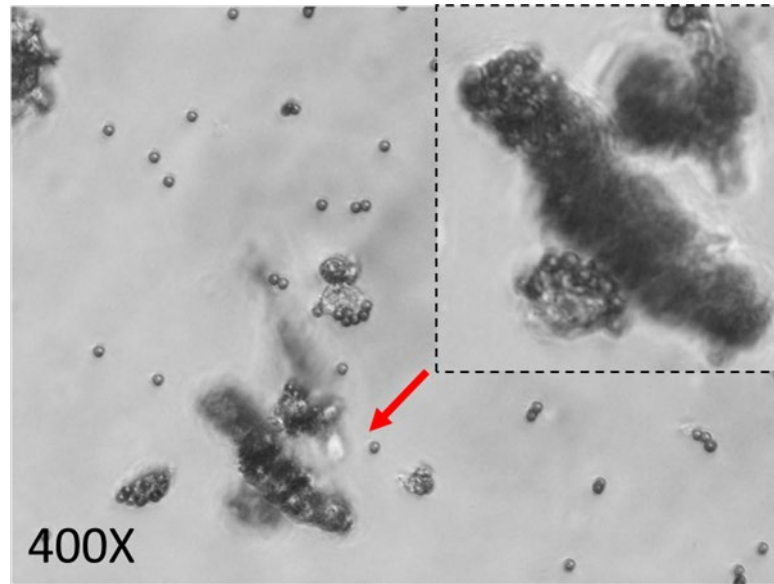


Figure S3. Microscope image of capture probes modified magnetic beads for capturing CEM cells.

$$\text{modified ratio} = \frac{A_0 - A_1}{A_n} \times 100\%$$

A_0 was the UV absorption at 260 nm before modification,
 A_1 was the UV absorption at 260 nm after modification.