

Supplementary Information

Visual monitoring of cisplatin-regulated caspase-3 activity in living cells based on reduced graphene oxide-loaded fluorescent probe

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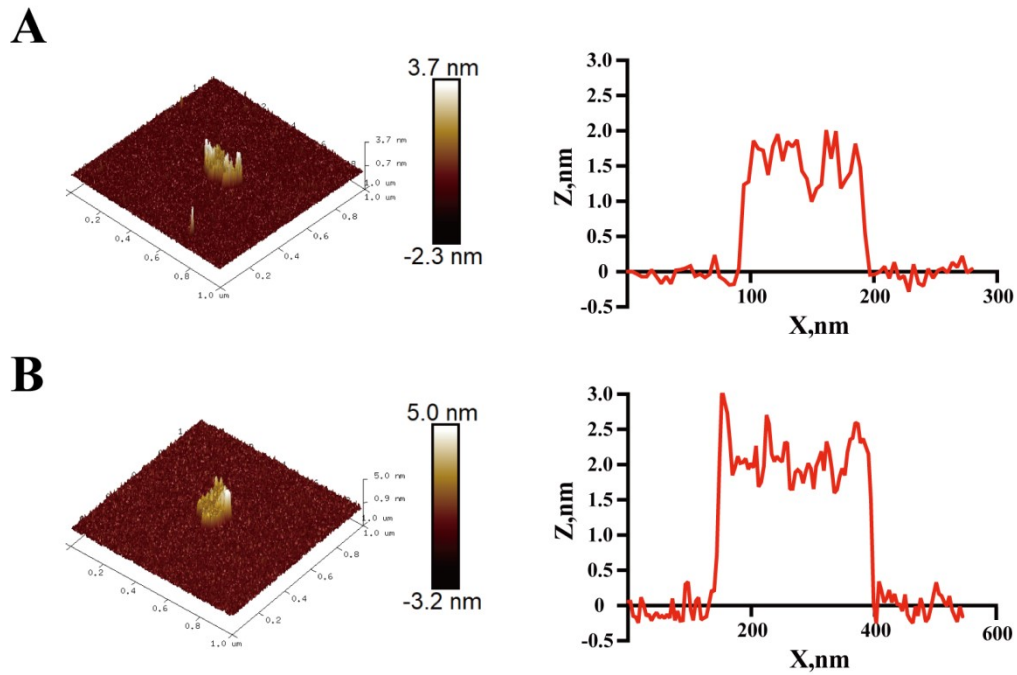


Fig. S1 The AFM images of rGO (A) and rGO with P(B).

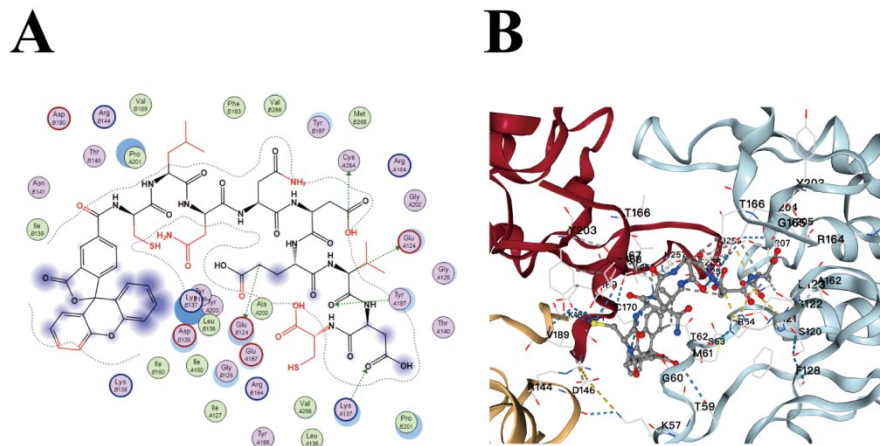


Fig. S2 (A) Diagram depicting the interaction between probe and Caspase-3. (B) 3D simulation of molecular docking of probe and Caspase-3. The docked ligand was shown as a stick model. The hydrogen-bonds are shown as blue lines.



P P + caspase-3

Fig. S3 Nondenaturing polyacrylamide gel electrophoresis (PAGE, 12%) of the

products for the detection of the caspase-3. Lane 1: P; Lane 2: P+caspase-3.

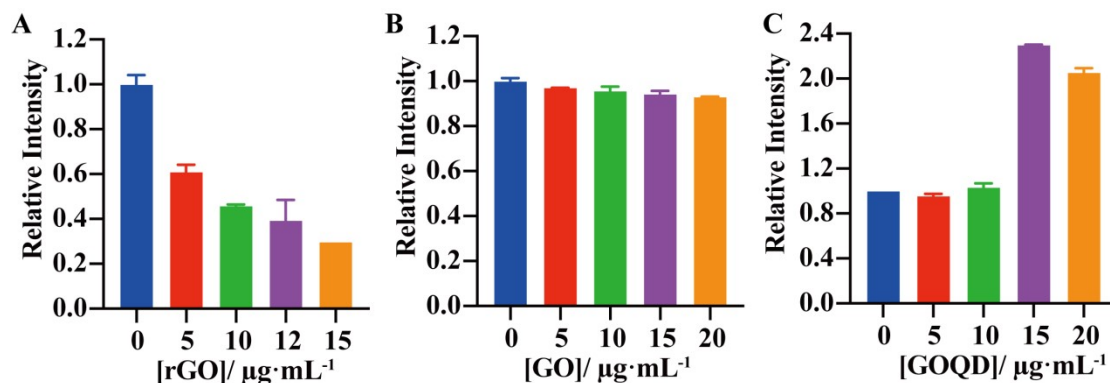


Fig. S4 The histogram of fluorescence intensity at 521 nm.

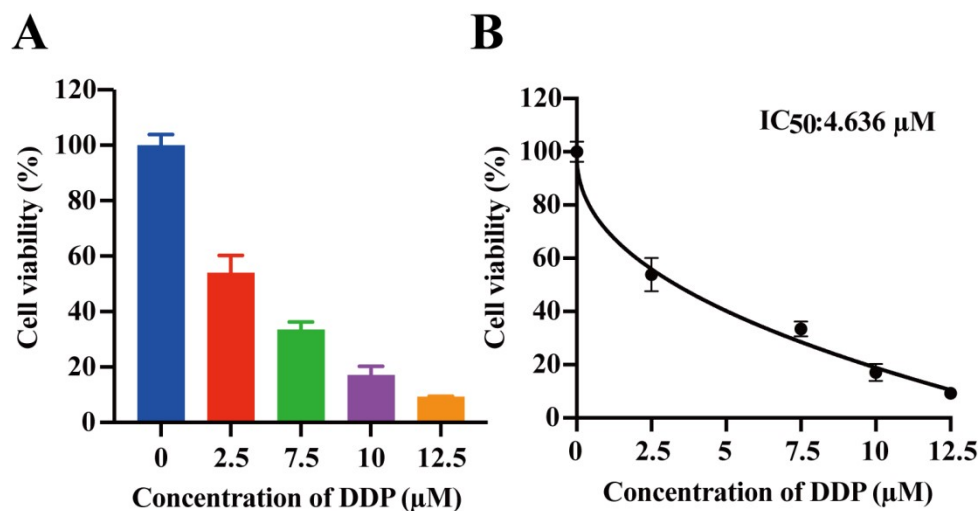


Fig. S5 The graph of cell viability of MCF-7 cells by DDP for 24 h.

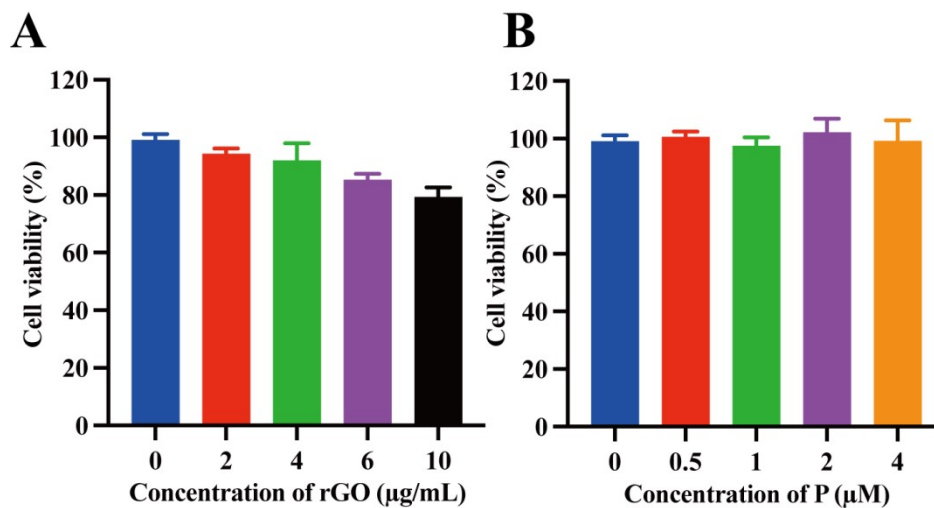


Fig. S6 Cell viability of MCF-7 cells incubating with rGO (A) and probe P (B) for 24 h.