## **Supporting Information**

## Immobilized ferrous ion and glucose oxidase on graphdiyne and its

## application on one-step glucose detection

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Figure S2. Zeta potential of GDY and Fe-GDY.



**Figure S3.** High resolution asymmetric C 1s XPS spectra of GDY (a) and Fe-GDY (b).



Figure S4. Selectivity analysis for glucose detection using Fe-GDY/GOx.