Appendix 1 The equations

$$\text{The loading efficiency}(\%) = \frac{Total\ quality - Quality\ in\ the\ supernatant}{Total\ quality} \times 100\% \quad [1]$$

$$Hemolysis\ rate(\%) = \frac{OD_{test} - OD_{NC}}{OD_{PC} - OD_{NC}} \times 100\% \quad [2]$$

$$Release\ rate(\%) = \frac{Quality\ of\ released\ \text{DMDD / Ce6}}{Total\ quality\ of\ \text{DMDD / Ce6}} \times 100\% \quad [3]$$

$$\text{The remaining DPBF rate}(\%) = 100 - \frac{Initial\ absorbance - Final\ absorbance}{Initial\ absorbance} \times 100\% \quad [4]$$

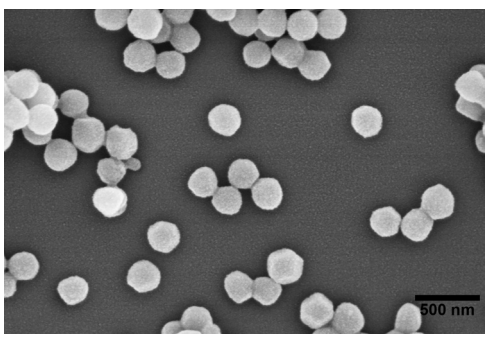

Figure 1 The scanning electron microscopy (SEM) image of the ZIF-8@ DMDD/Ce6@ cytomembrane (ZDC@M) nanomedicine.

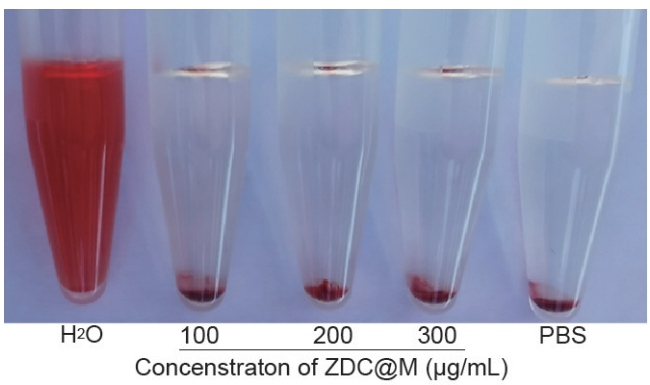

Figure S3 Hemolysis Assay of the ZIF-8@ DMDD/Ce6@ cytomembrane (ZDC@M) at different concentrations.

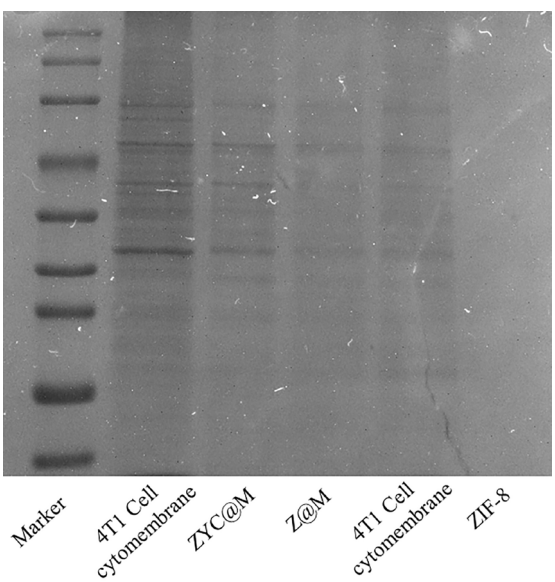

Figure S2 Gel Electrophoresis of 4T1 cell cytomembrane, ZIF-8 @ cytomembrane (Z@M) and the ZIF-8@ DMDD/Ce6@ cytomembrane (ZDC@M).

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