

## Supporting information

# **Fe<sub>3</sub>O<sub>4</sub>@carbon@zeolitic imidazolate framework-8 nanoparticles as multifunctional pH-responsive drug delivery vehicles for tumor therapy *in vivo***

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## Supporting Information Figures

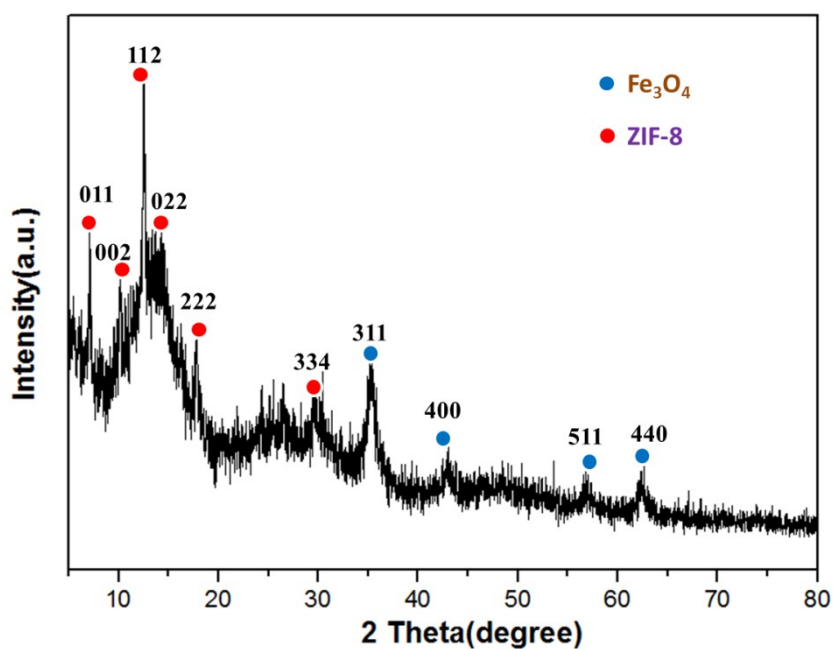


Figure S1. X-ray diffraction pattern of FCZ NPs.

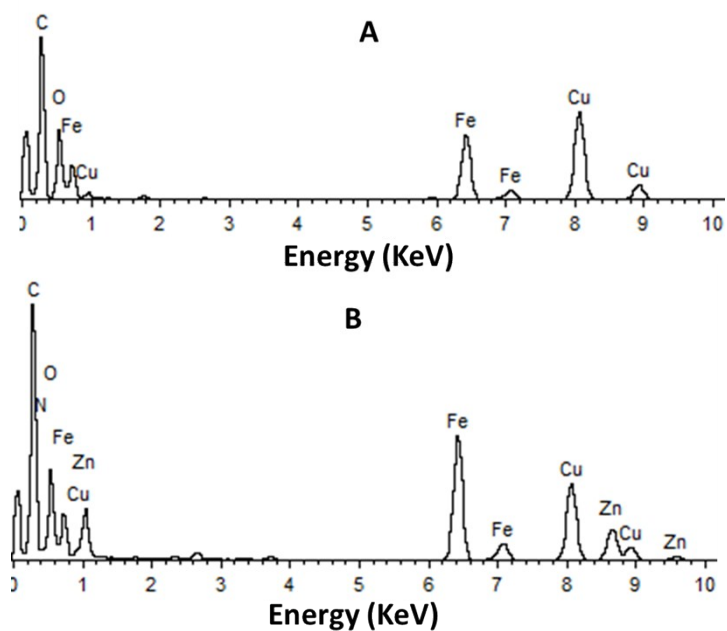
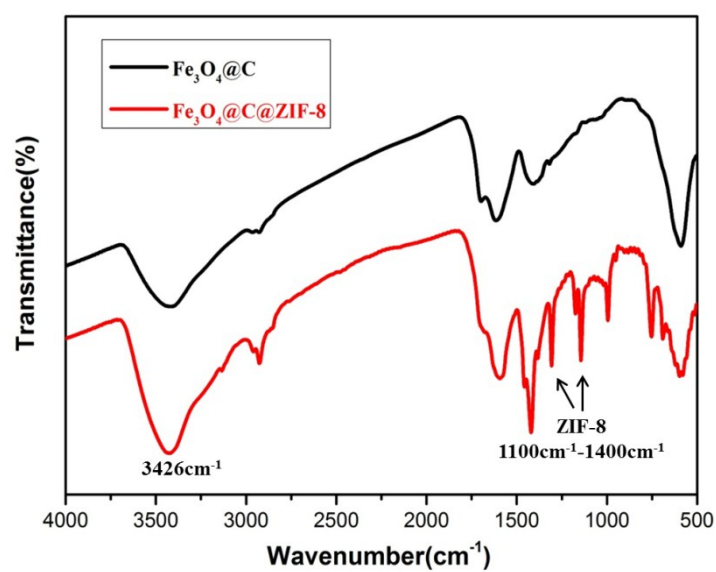
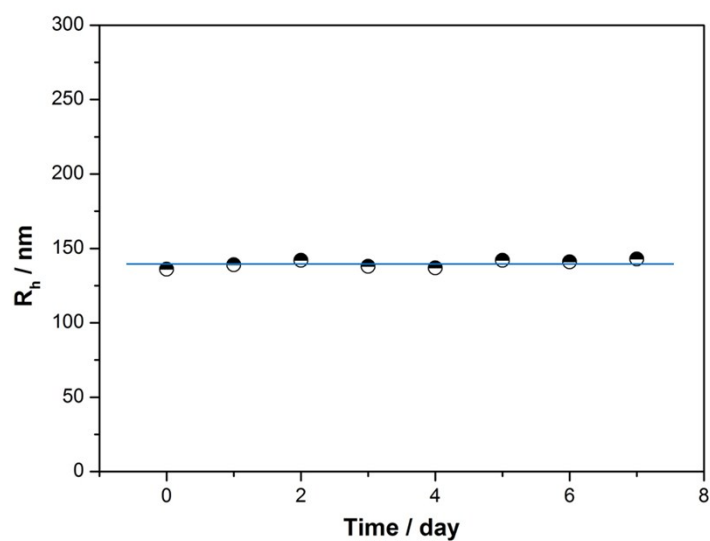


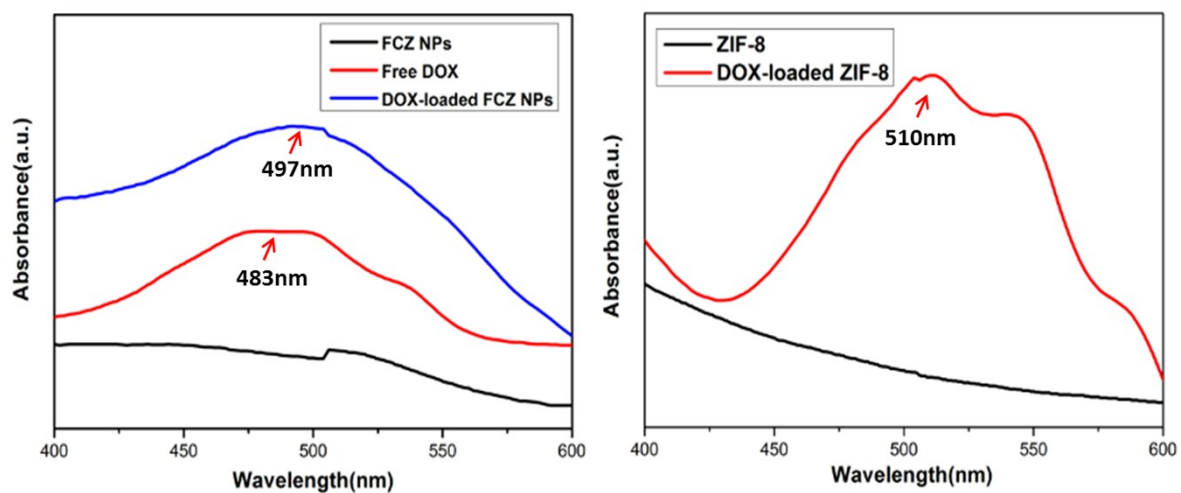
Figure S2. EDX analyses of Fe<sub>3</sub>O<sub>4</sub>@C (A) and FCZ NPs (B).



**Figure S3.** FT-IR spectra of Fe<sub>3</sub>O<sub>4</sub>@C and FCZ NPs.



**Figure S4.** *In vitro* stability of FCZ NPs. The size of the nanoparticles in 50% fetal bovine serum was measured by a commercial laser light scattering (LLS) spectrometer (ALV/DLS/SLS-5022 F).



**Figure S5.** UV-Vis absorption spectra of FCZ NPs, free DOX, DOX-loaded FCZ NPs, ZIF-8 and DOX-loaded ZIF-8.