Supplementary Content

Zwitterionic Amphiphile Coated Magnetofluorescent Nanoparticles – Synthesis, Characterization and Tumor Cell Targeting

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Figure S1. FTIR spectra of ASB-16 (with sulfobetaine) and DDMAB (with carboxybetaine)

Figure S2. NMR spectra of PMAO derivatives in the synthesis of PMAO-CB-SB
Figure S3. Effect of CB groups on facilitating the conjugation reaction – PMAO-CB (100% CB and 0% SB) and PMAO-SB (0% CB and 100% SB) were prepared and further conjugated with amino fluorophores (amino Cy3) in organic phase through EDC cross-linking. With the same cross-linking conditions, PMAO-CB conjugates present a higher fluorescence intensity of Cy3 compared to PMAO-SB conjugates.
Figure S4. Representative and normalized photoluminescence intensity of CIS QDs in the time course of growth (the synthetic temperature = 240 °C)

Figure S5. TEM image of blank particles using only PMAO-CB-SB polymers (without loading any QDs and magnetic NPs). 1% phosphotungstic acid was used to negatively stain the blank particles for TEM imaging.
Figure S6. Long-term stability of ZW-MFNPs in water at 4 °C
Figure S7. Confocal images at different channels and their overlays demonstrating the cellular uptake/internalization of CTX-conjugated ZW-MFNPs and non-conjugated ZW-MFNPs under the same concentration of particles by U-87 and HEK-293