## Supporting Information

## Development of Bovine Serum Albumin–modified Hybrid Nanoclusters for Magnetofluorescent Imaging and Drug Delivery

Mochamad Z. Fahmi,<sup>‡a</sup>Keng-Liang Ou, <sup>‡bcde</sup> Jem-Kun Chen,<sup>f</sup> Ming-Hua Ho,<sup>a</sup> Shin-Hwa Tzing,<sup>g</sup> Jia-Yaw Chang<sup>a</sup>\*



**Figure S1.** HR-TEM images, EDS spectrums, and XRD patterns of  $AgInS_2$ -ZnS (a-c) and  $MnFe_2O_4$  (d-f), respectively. Insert: high magnification of  $AgInS_2$ -ZnS (a) and  $MnFe_2O_4$  (d) with scale bar represent 2 nm.



**Figure S2.** (a) Photograph images of BSA(QMs) at different pH value. (b) Photograph images of BSA(QMs) with adjusted NaCl concentrations : 0 M (i), 0.15 M (ii), 0.3 M (iii), and 0.5 M (iv).



**Figure S3.** CLSM images of Hela cell after 1 h incubation with free FA at 37 °C. Composing with (a) visible light, (b) same wavelength with QDs, and (c) overlapping a and b images. scale bars shows  $20\mu m$ .



**Figure S4.** CLSM images of Hela Cell after 1 h incubation with FA-BSA(QMs) at 4°C, the images consisting : (a) visible light, (b) yellow fluorescence, and overlapping a and b images. scale bars shows  $20\mu m$ .



**Figure S5.** CLSM images of Hela cell after 1 h incubation with free DOX at 37 °C. Composing with (a) visible light, (b) DOX, and (c) overlapping a and b images. scale bars shows  $20\mu m$