Supporting information

Synthesis and in Vitro characterization of Fe^{3+}-doped layered double hydroxide nanorings as a potential imageable drug delivery system

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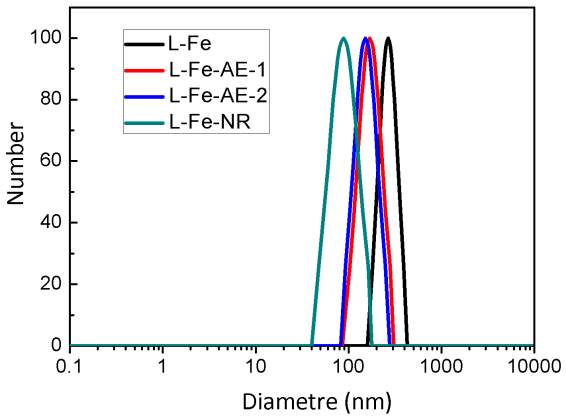

Figure S1. Dynamic light scattering (DLS) size distributions of L-Fe, L-Fe-AE-1, L-Fe-AE-2, and L-Fe-NR.

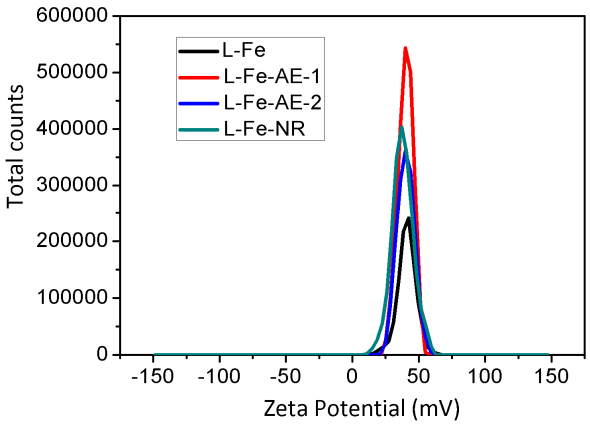

Figure S2. Zeta potential distributions of L-Fe, L-Fe-AE-1, L-Fe-AE-2, and L-Fe-NR.

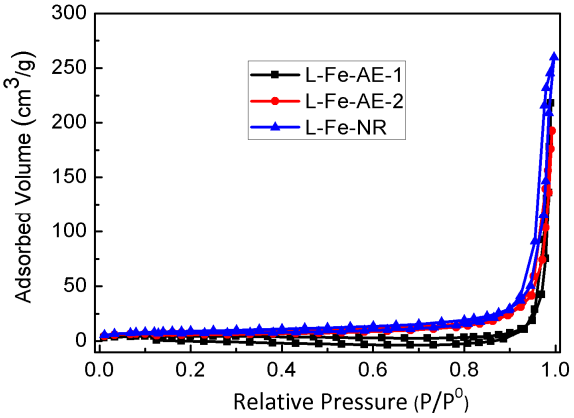

Figure S3. N2 adsorption–desorption isotherms of L-Fe-AE-1, L-Fe-AE-2, and L-Fe-NR.

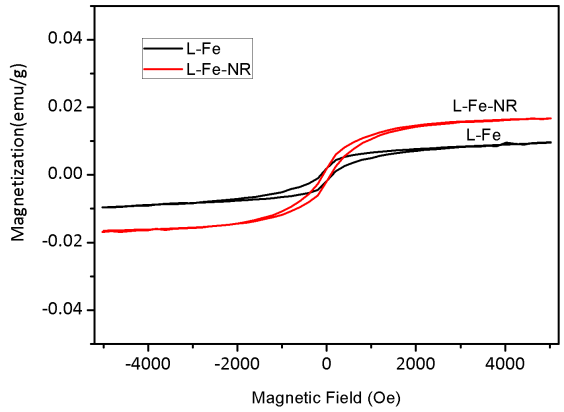

Figure S4. Room temperature magnetization curves of L-Fe and L-Fe-NR.

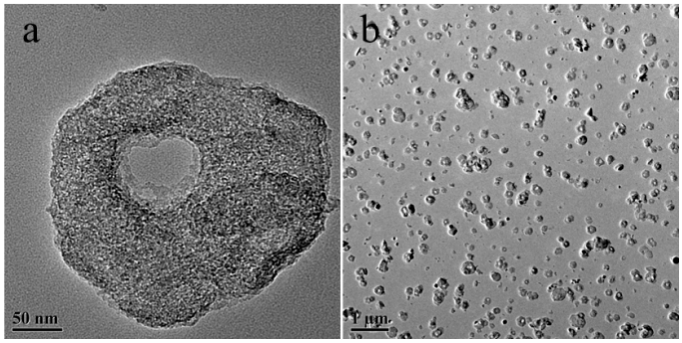

Figure S5. TEM images of cL-Fe-NR showing the preserved ring morphology and high dispersity.

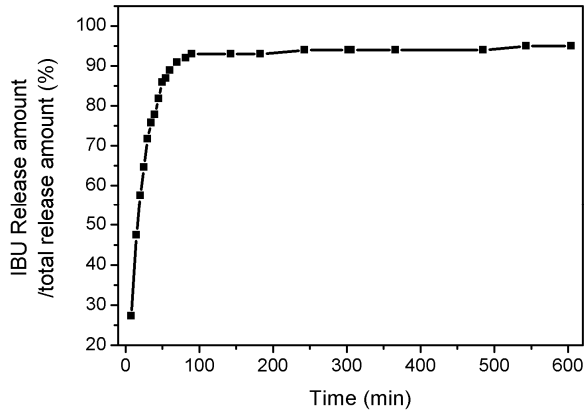

Figure S6. In vitro release profiles of L-Fe-NR-IBU in PBS solution at a pH value of 7.4.

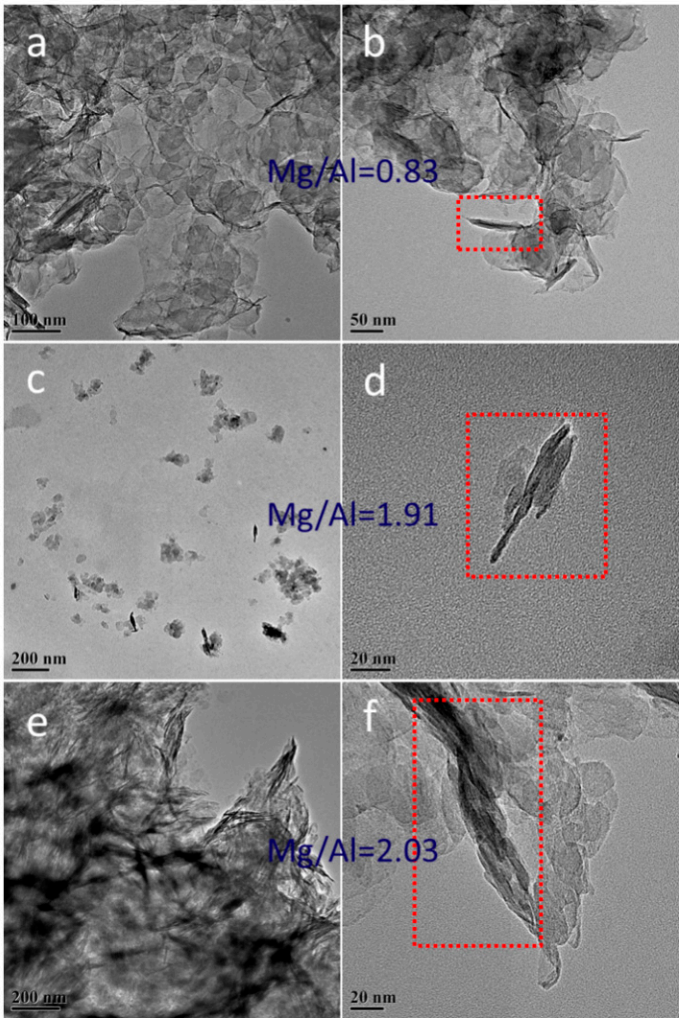

Figure S7. TEM images of L-Fe-Pre-1 (a, b), L-Fe-Pre-2 (c, d), and L-Fe-Pre-3 (e, f). L-Fe-Pre-1, L-Fe-Pre-2, and L-Fe-Pre-3 are the intermediates in the preparation of LDH, as described in the experimental section.