Electronic Supplementary Material

Turn on Fluorescence Detection of Ciprofloxacin in Tablet Based on Lanthanide Coordination Polymer Nanoparticles

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Figure S1

Figure S1 X-ray diffraction (XRD) spectra of Eu/GMP NPs (a) and Eu/GMP NPs in the presence of CIP (b).

Figure S2

Figure S2 Energy-dispersive X-ray (EDX) spectra of Eu/GMP NPs (a) and Eu/GMP NPs after the addition of CIP (b).
Figure S3

Figure S3 Excitation (left: a and c) and emission (right: b and d) spectra of Eu-CIP in water solutions (c, d) and in ethanol (a, b). (Inset is their fluorescences under a UV lamp).

Figure S4

Figure S4 Fluorescence of CIP under fluorescence mode (a) and time-resolve fluorescence mode with UV excitation (b).
Figure S5

Figure S5 FTIR spectra of GMP (a), Eu/GMP NPs (b), Eu/GMP-CIP NPs (c), and pure CIP (d). \( \nu \): stretching vibration; \( \delta \): scissoring vibration.

Figure S6

Figure S6 UV-vis spectra of Eu/GMP NPs (1:1, molar ratio), Eu/GMP NPs after the addition of CIP (1:1:6, molar ratio), Eu/CIP (1:1, molar ratio), CIP and GMP in HEPES (pH 7.4).
Figure S7

Figure S7. Fluorescence lifetimes of Eu/GMP NPs (a) and Eu/GMP NPs in the presence of CIP (b).

Figure S8

Figure S8. Effect of pH on fluorescence intensity of Eu/GMP NPs in the presence of CIP (20 μM).
Figure S9. Effect of reaction time on the fluorescence intensity of Eu/GMP NPs at 615 nm in the presence of CIP (20 µM)