

Supporting Information

Multi-functional quantum dot-polypeptide hybrid nanogel for targeted imaging and drug delivery

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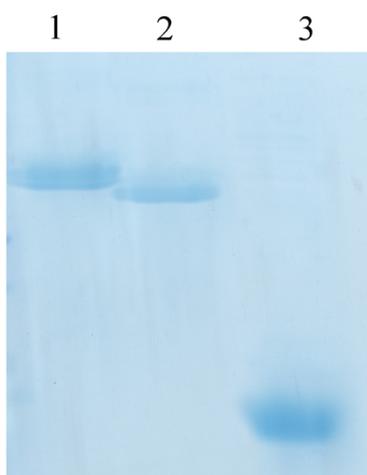


Fig. S1 SDS-PAGE of PC₁₀ARGD (lane 1), PC₁₀A (lane 2), and P (lane 3).

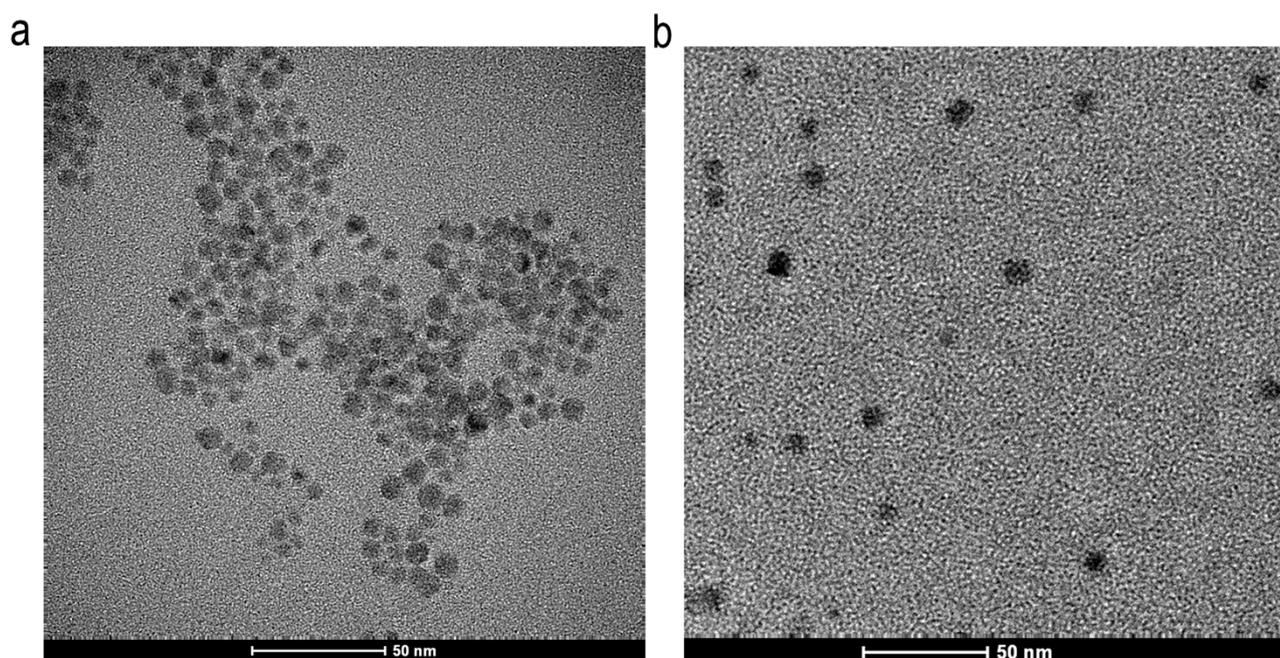


Fig. S2 Unstained TEM images of GSH-capped CdSe-ZnS QDs (a) and QD-PC₁₀A nanogel (b)

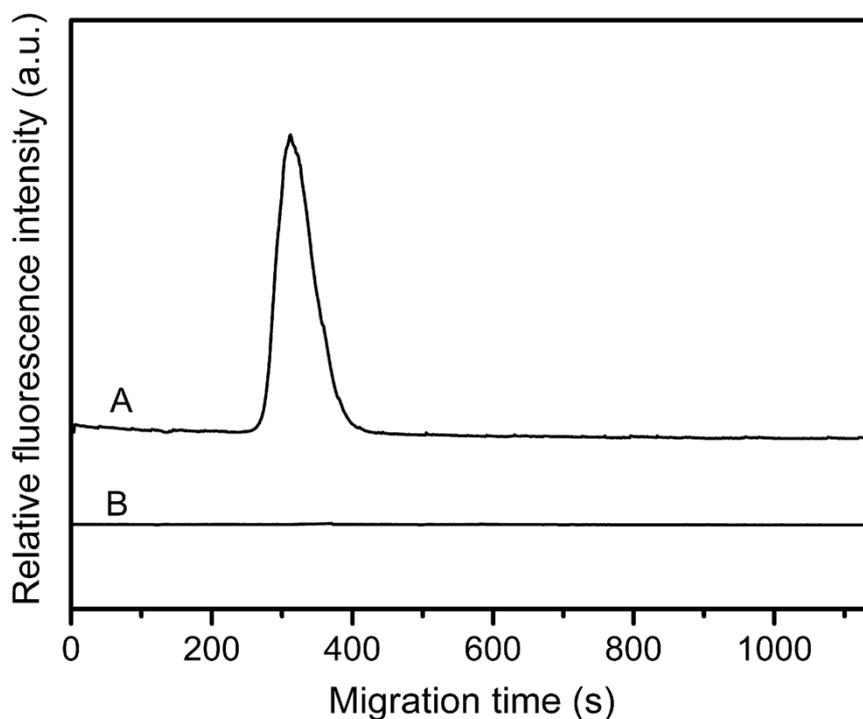


Fig. S3 Electropherograms obtained from the QD-PC₁₀ARGD (A) and encapsulated dye (B) channel. Sample: 5×10^{-7} M QD-PC₁₀ARGD. Coated capillary with 36 cm effective (60 cm total) length and 75 μ m I.D. was used. 25 mM Na₂B₄O₇ (pH 9.2) was used as running buffer. Applied voltage was 18 kV, and hydrodynamic injection was carried out by siphoning at 13 cm height for 20 s. $\lambda_{\text{ex}} = 420$ nm.

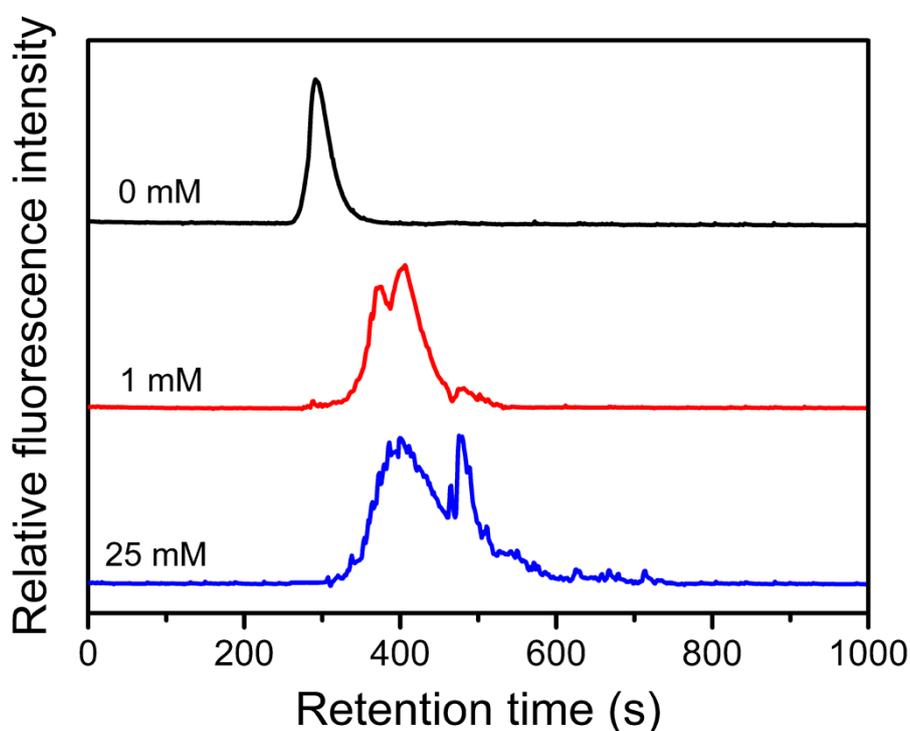


Fig. S4 Electropherograms of displacement by 1 mM and 25 mM imidazole. Other conditions were same as described in Fig. S3.

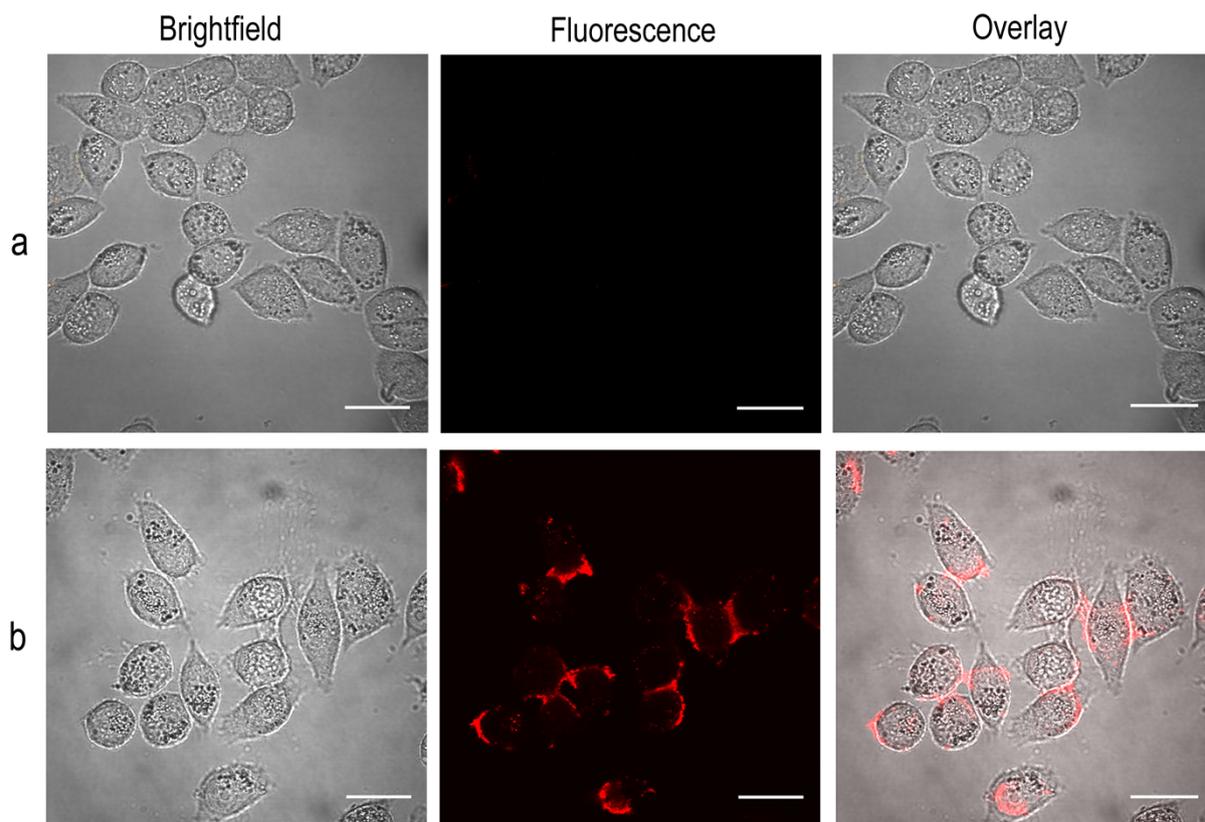


Fig. S5 Confocal fluorescence images of HeLa cells incubated with 2 nM QD-PC₁₀A nanogel (a) and GSH-capped QDs (b), respectively. The fluorescence channel was collected at 620 ± 10 nm. A 100 \times oil-immersion objective (1.40 numerical apertures) was used. Scale bars are 20 μ m.