

**Novel fluorescein polymers based nanoparticles: Facile and controllable
one-pot synthesis, assembly, and immobilization of biomolecules for
application of highly sensitive biosensor**

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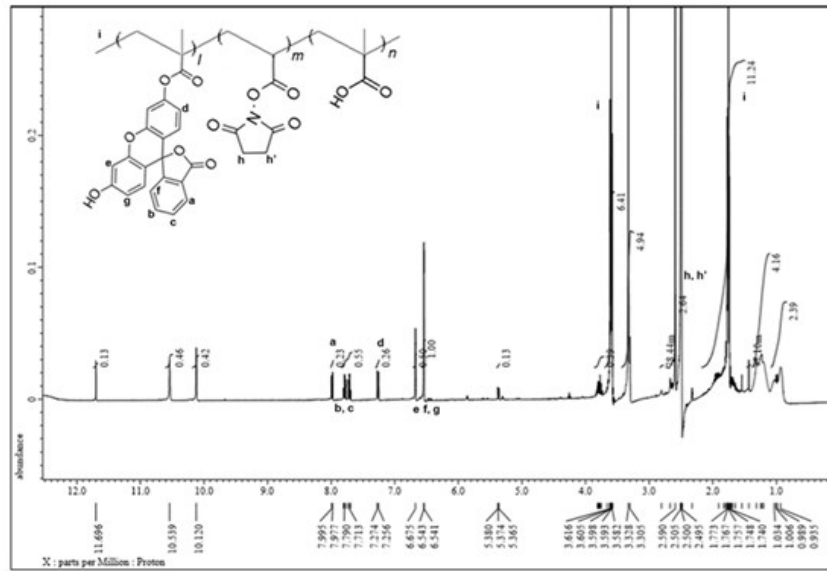
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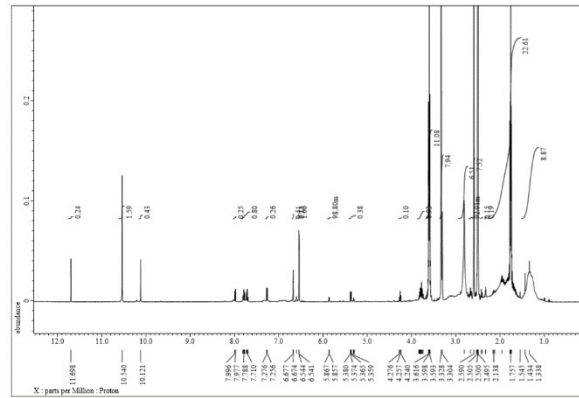
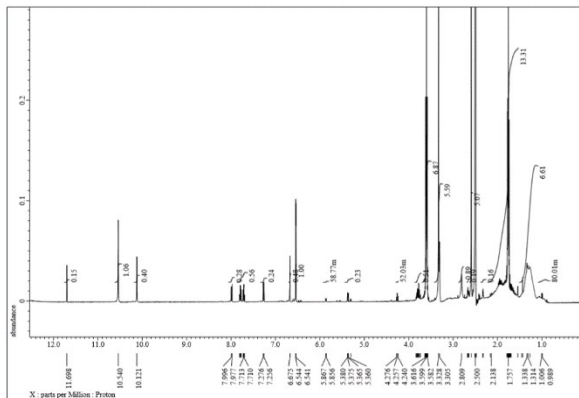
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Supplementary Figure S1. NMR spectrum of the synthesized fluorescein polymers with assigned peaks.

Poly F1



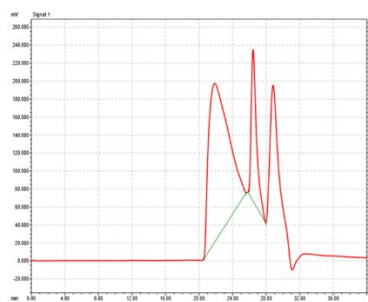
Poly F2



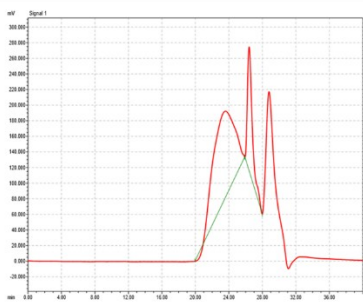
Poly F3

Supplementary Figure S2. GPC chromatogram of the synthesized fluorescein polymers.

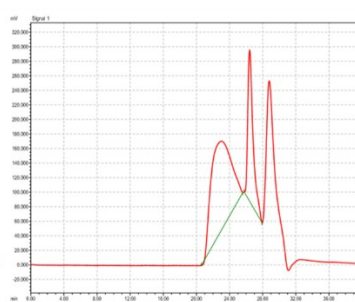
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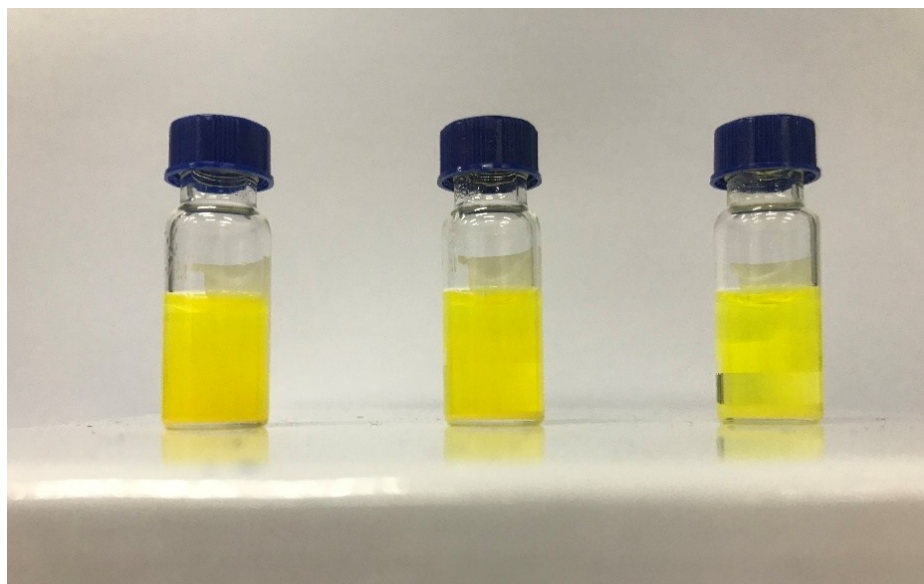
Poly F2



Poly F3



Supplementary Figure S3. Photographic images of the stability test for the BSA-immobilized FPNPs, left to right: FPNP1-BSA, FPNP2-BSA, and FPNP3-BSA.



Supplementary Figure S4. Fluorescence sensitivity for BSA detection table for the concentration ranging from 0 to 10ug/ml (Error bars represent the standard deviation of at least three repetitive experiments).

Anti-BSA Concentration		10ug/ml	1ug/ml	100ng/ml	10ng/ml	1ng/ml	0.1ng/ml	0.01ng/ml	0ng/ml
Fluorescent Intensity (a.u.)	FPNPs-BSA	3006±486	2762±399	2268±151	1867±178	1434±60	1123±70	856±48	732±16
	FITC-BSA	685±40	560±24	545±30	521±17	517±31	486±23	469±24	449±6