

Supplementary Information

A novel magnetic and fluorescent nanocomposite probe for detection of matrix metalloproteinase-2 in cell

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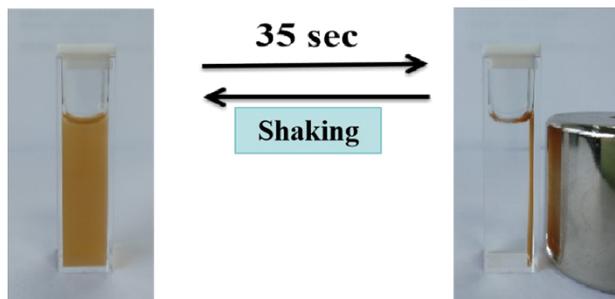


Figure S1 The process of dispersing nanoprobe in aqueous medium and subsequent magnetic separation.

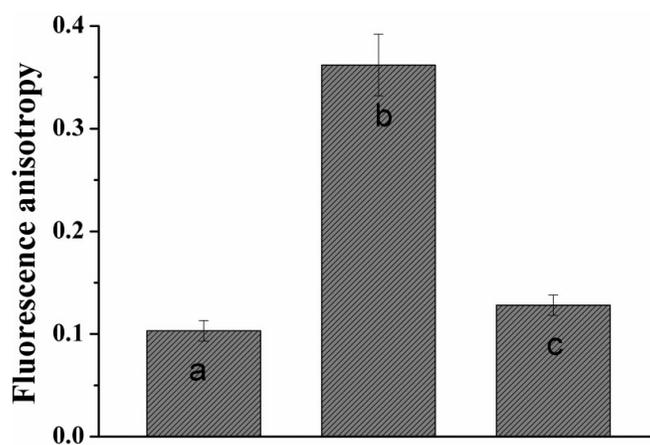


Figure S2 The fluorescence anisotropy of (a) the FITC dye labeled peptide; (b) after the interaction with magnetic bead and (c) with the addition of target enzyme to the above system.

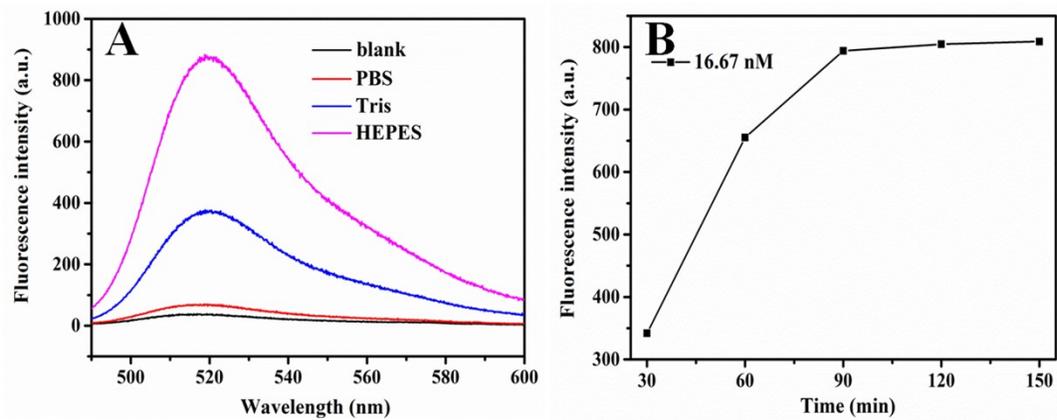


Figure S3 (A) The effect of buffer system on fluorescence intensity. (B) The effect of response time on fluorescence intensity.

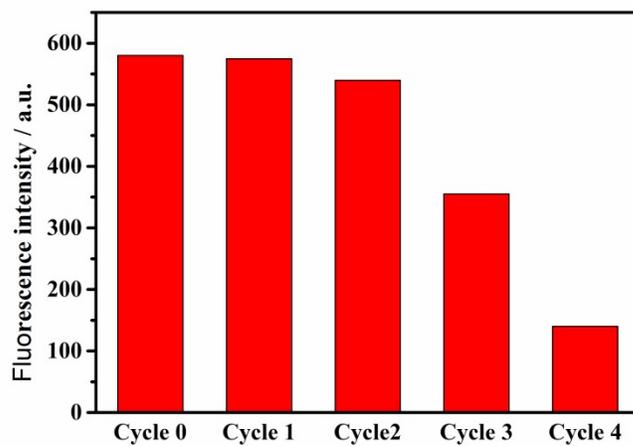


Figure. S4 Fluorescence intensity of the probe after multiple uses

Table S1 Comparison of different methods for detecting MMP-2

Detection methods for MMP-2	Linear range (ng/mL)	Detection limit (ng/mL)	Ref.
sequential affinity capture, and electrochemical measurement	10-3000	20	1
surface-enhanced Raman scattering (SERS)	10-100	0.715	2
photoelectrochemical biosensing platform	0.001-100	0.55	3
Multiplexed Opto-Microfluidic Biosensing	0.1-200	0.37	4
Fluorescence probe-based methods	1-175	0.8	5
Fluorescence probe-based methods	50-1600	3.7	6
Fluorescence probe-based methods	1.2-120	0.3	This work

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