

Supplementary Material

Label-free and sensitive detection of coralyne and heparin based on target-induced G-quadruplex formation

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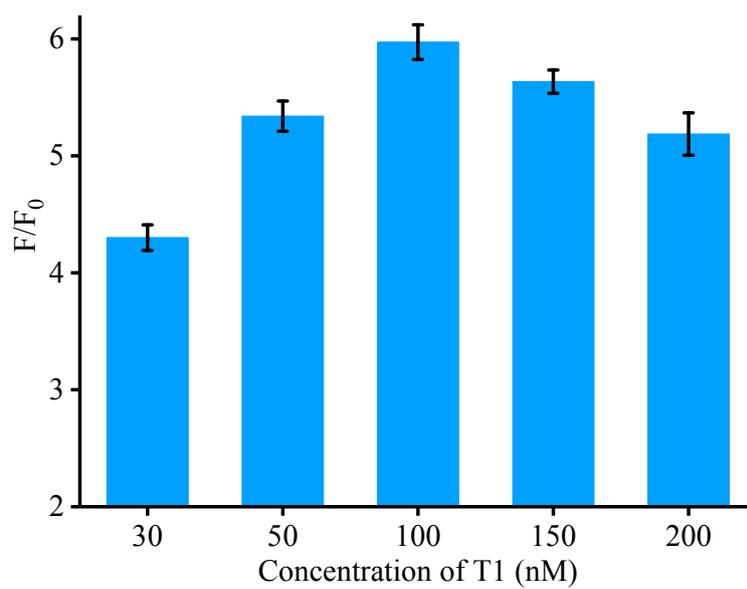


Fig. S1 The effect of T1 concentration (30 nM, 50 nM, 100 nM, 150 nM and 200 nM) on the fluorescence response of the sensing system.

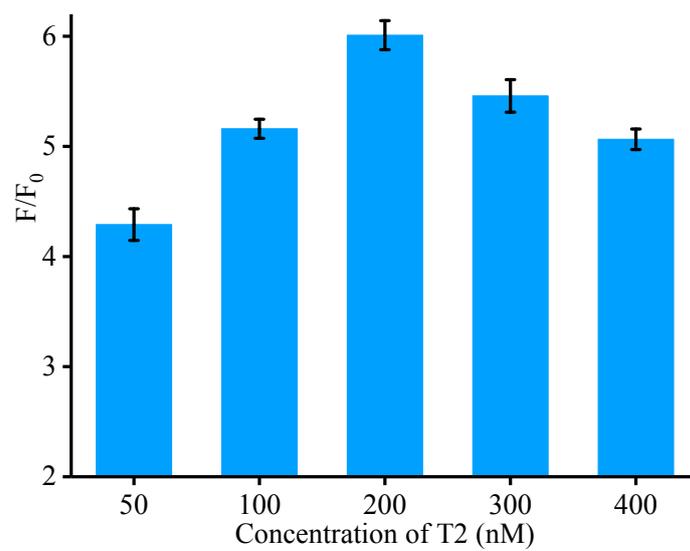


Fig. S2 The effect of T2 concentration (50 nM, 100 nM, 200 nM, 300 nM and 400 nM) on the fluorescence response of the sensing system.

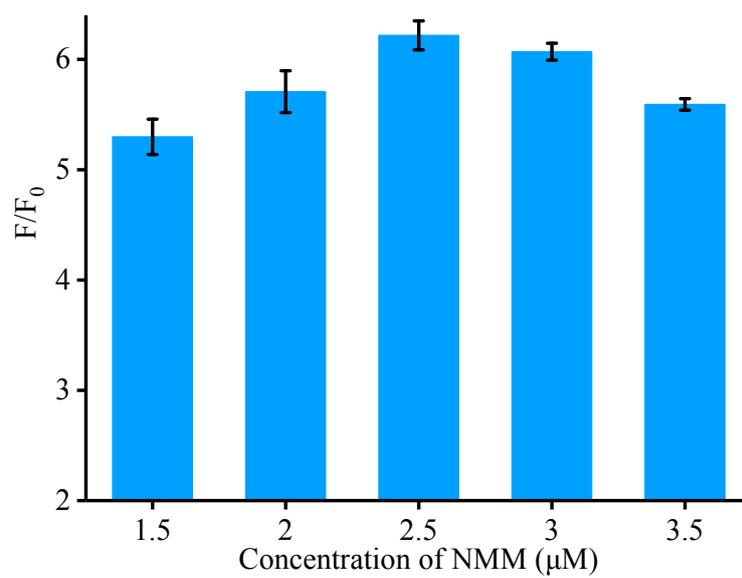


Fig. S3 The effect of NMM concentration (1.5 μM, 2 μM, 2.5 μM, 3 μM and 3.5 μM) on the fluorescence response of the sensing system.

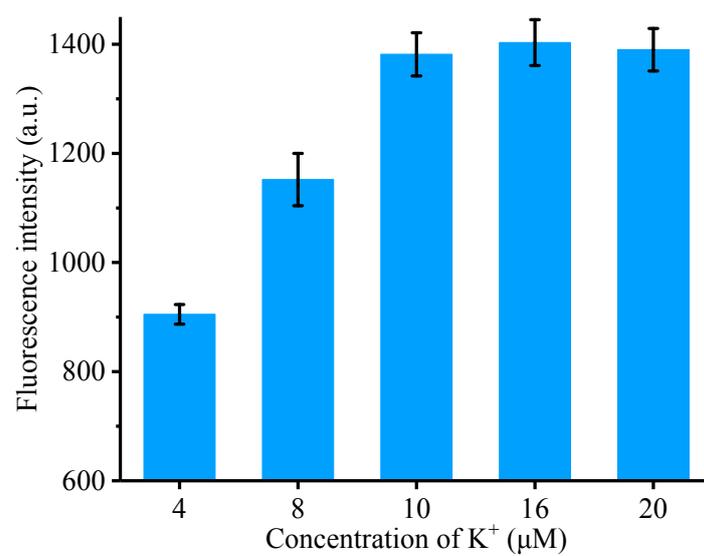


Fig. S4 The effect of K⁺ concentration (4 µM, 8 µM, 10 µM, 16 µM and 20 µM) on the fluorescence response of the sensing system.

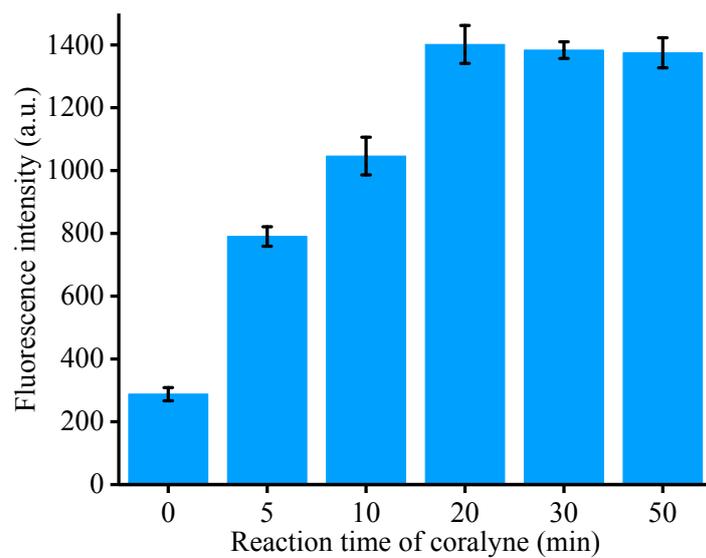


Fig. S5 The effect of coralyne reaction time (0, 5 min, 10 min, 20 min, 30 min and 50 min) on the fluorescence response of the sensing system.

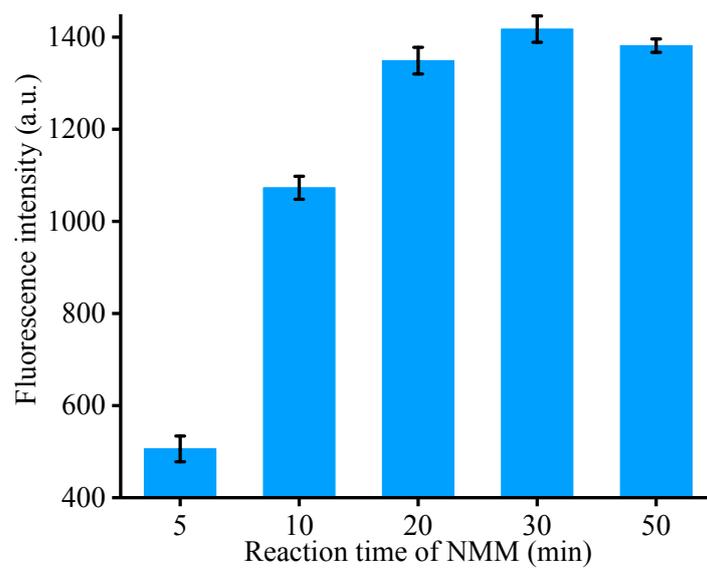


Fig. S6 The effect of NMM reaction time (5, 10 min, 20 min, 30 min and 50 min) on the fluorescence response of the sensing system.

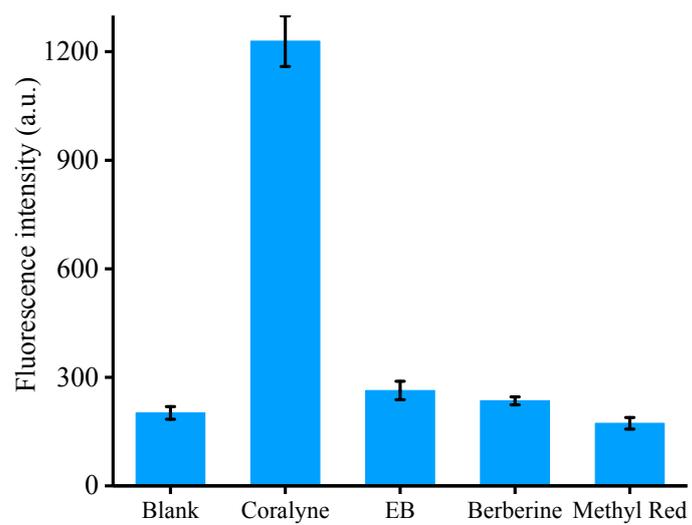


Fig. S7 Specificity for the detection of coralyne. The concentration of coralyne or others all were 5 μ M. Error bars were estimated from three replicate measurements.

Table S1 Comparison of different methods for the determination of coralyne.

Method	Material	Detection range (μM)	LOD (nM)	Reference
Colorimetric	DNAzyme	0.05-5	31	7
Colorimetric	Gold nanoparticle	0.01-2	100	10
Colorimetric	Gold nanoparticle	0.091-0.728	91	17
Polarization interferometry	Homoadenine	0.5-12	0.22	13
Fluorescence	Fam	0.01-0.7	10	9
Fluorescence	Silver nanocluster	3-10	3000	12
Fluorescence	NMM	0.01-5	5.8	This work