Electronic Supplementary Material

A ligation-triggered and protein-assisted fluorescence anisotropy amplification platform for sensitive and selective detection of small molecules in biological matrix

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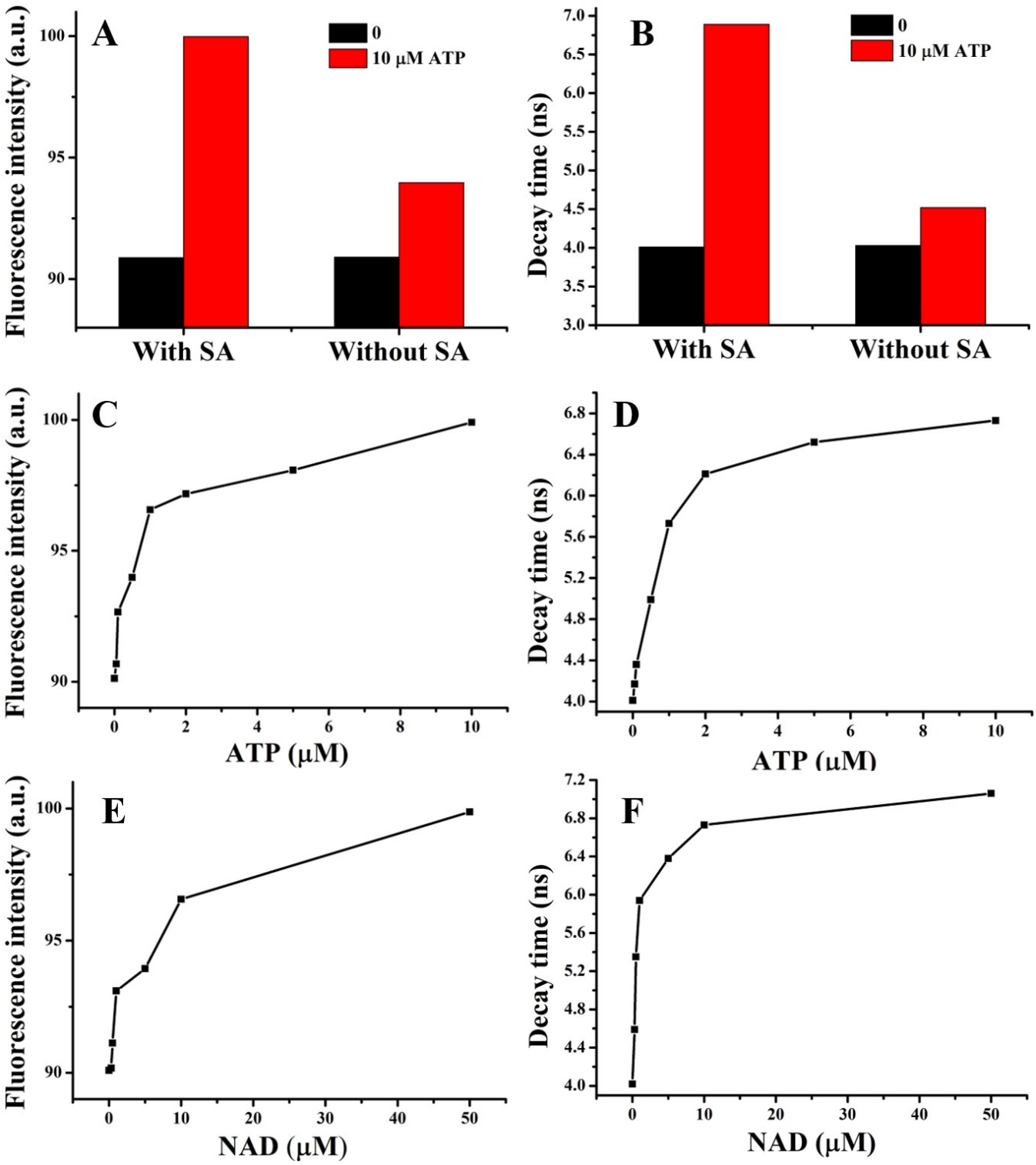

Fig. S1 Fluorescence intensity (A) and lifetime (B) change with and without SA in the detection system. Fluorescence intensity (C, E) and lifetime (B, D) change of different concentrations of ATP (C, D) and NAD^+ (E, F).

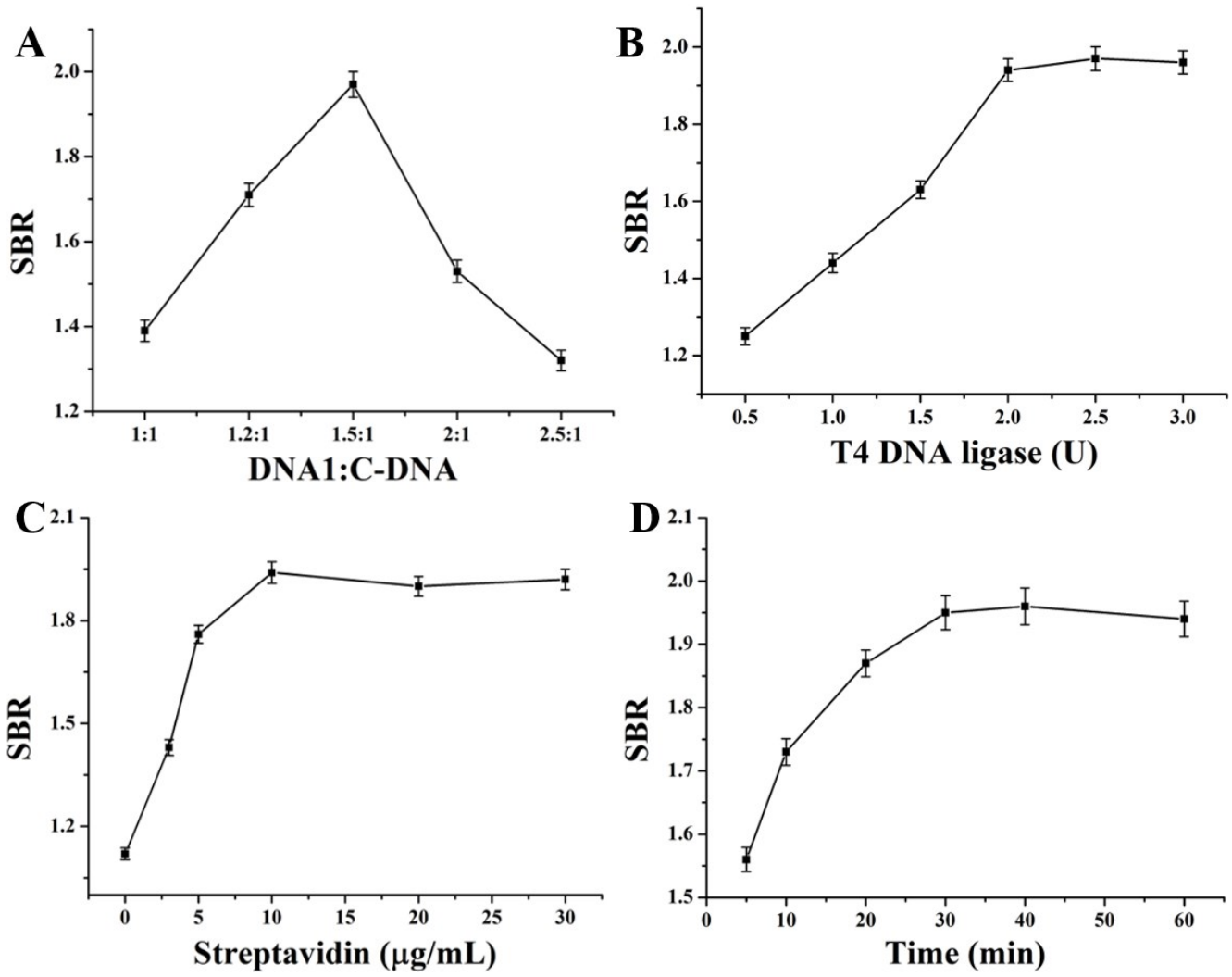

Fig. S2 Optimal ratio of DNA 1 (DNA 2) to C-DNA (A), T4 DNA ligase (B), Streptavidin (C) and reaction time (D). At last, 1.5: 1, 2 U T4 DNA ligase, 10 μg·mL^{-1} SA, and 30 min reaction time were chosen respectively. SBR was defined as FAV1 /FAV0, where FAV0 and FAV1 are the fluorescence anisotropy value in the absence (FAV0) and presence (FAV1) of targets, respectively.