

Effect of Linker Structure on Surface Density of Aptamer Monolayers and their Corresponding Protein Binding Efficiency

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Supplementary Information

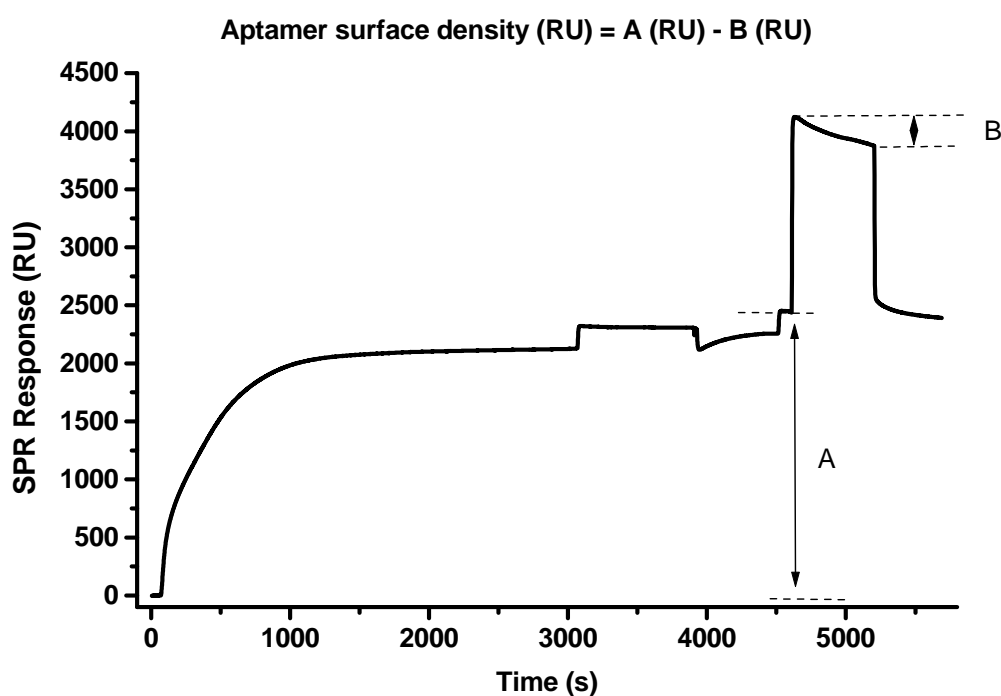


Figure S-1: A) SPR sensogram showing the formation 5'-C6-T5-A1 aptamer monolayer from sequential additions of 5'-C6-T5-A1 aptamer thiol to the gold surface in-vitro; B) Desorption from the addition of mercaptoethanol. Final aptamer density was found by subtracting the amount of desorbed aptamer from the original amount of aptamer immobilized in step A.

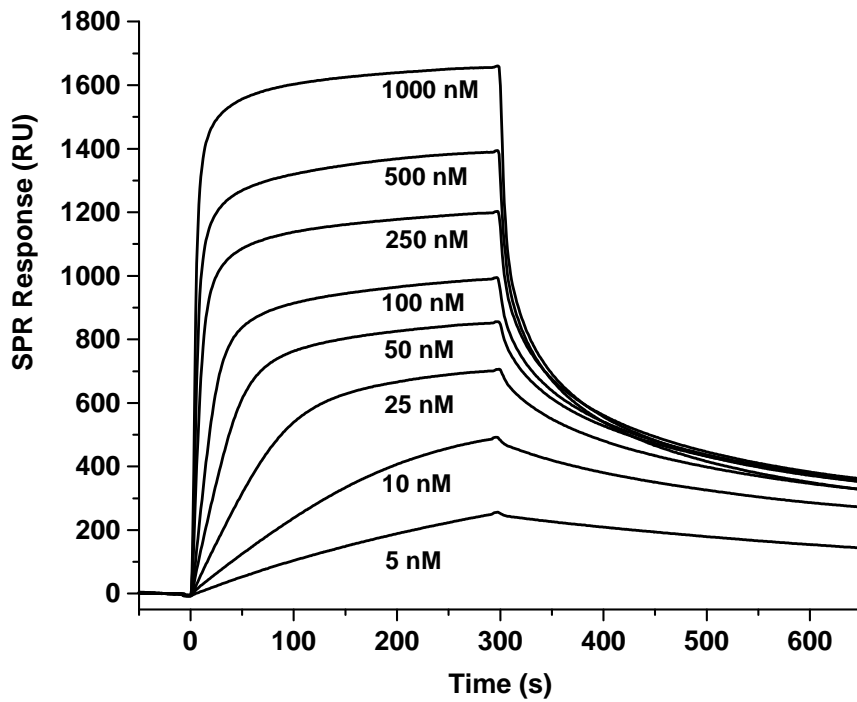


Figure S-2: Representative SPR sensograms for binding of different concentrations of thrombin onto a 5'-C₆-T₁-A₁ aptamer monolayer. Effective regeneration of the aptamer surface between analyses was achieved by removal of bound thrombin with 2 M NaCl.

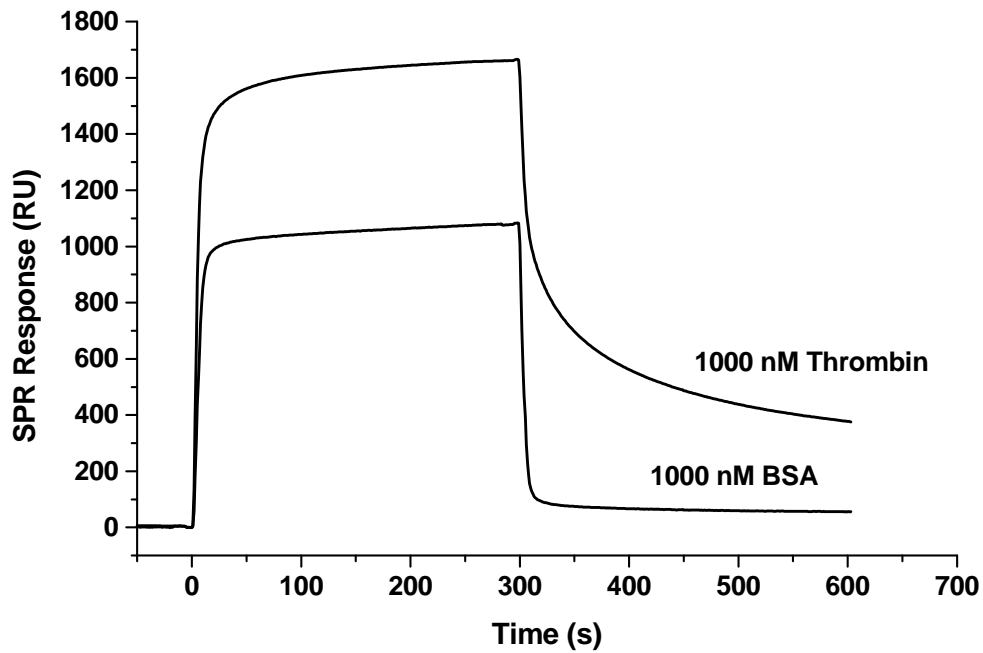


Figure S-3: SPR sensograms show the response of 5'-C₆-T₁-A₁ monolayer for 1000 nM thrombin and 1000 nM of BSA.