

ATW0007

Aptamer to Human Fibrinogen

Selection Information

Target for Selection: Human plasma fibrinogen, Sigma # F3879

Number of DNA Nucleotides: 40

Aptamers were selected from a randomized Base Pair 40-mer DNA library against the target protein. Proprietary methods were used to select this specific aptamer sequence.

Affinity Determination

Affinity Determination Method: Surface Plasmon Resonance (SPR)

Buffer Used for Affinity Determination: 20 mM Tris, 100 mM NaCl, 0.005% Tween, in nuclease-free water, pH 7.4

Average K_D : 38.5 nM

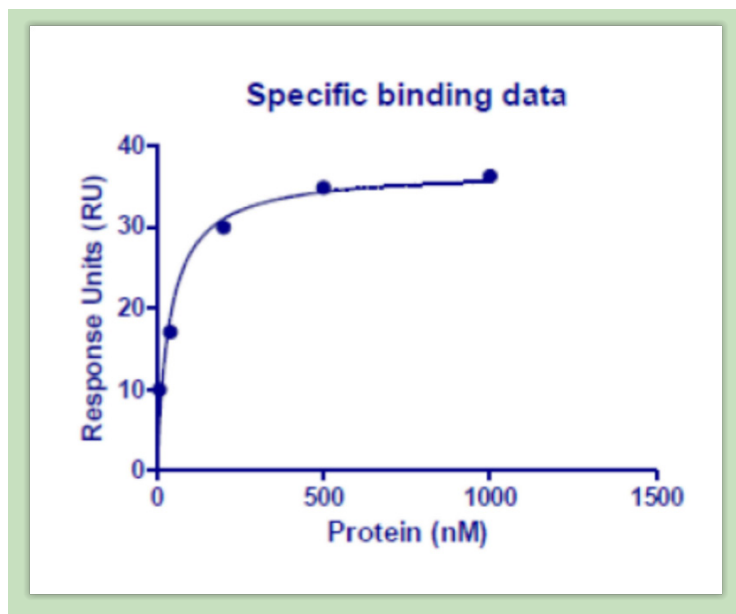


Figure 1. Aptamer-Fibrinogen Binding

The response is plotted versus the titrated target concentration

Aptamer Folding

For optimal binding, aptamers must be folded into their tertiary structure prior to use. Dilute to 10x working concentration in Folding Buffer, heat to 90-95°C for 5 minutes, then cool to room temperature (~15 minutes). Final application buffers used for dilution of aptamer to working concentration and washing should contain 1 mM MgCl₂.