

ATW0086

Aptamer to Human Serum Albumin

Selection Information

Target for Selection: Human Serum Albumin (HSA), Sigma Cat# A9511

Number of DNA Nucleotides: 32

Aptamers were selected from a randomized Base Pair 32-mer DNA library against the target protein. Proprietary methods were used to select this specific aptamer sequence.

Affinity Determination

Affinity Determination Method: Microscale Thermophoresis analysis (MST)

Buffer Used for Affinity Determination: 1 x PBS, 1mM MgCl₂, 0.05% Tween 20, pH 7.4

Average kD: 190.6 ± 52.8 nM

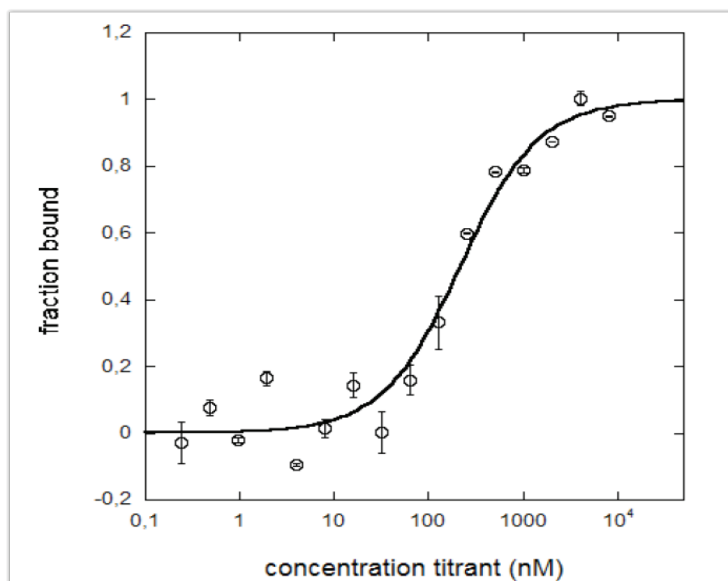


Figure 1. Aptamer-HSA Binding

The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.965$

Aptamer Folding

For optimal binding, aptamers must be folded into their tertiary structure prior to use. Once the aptamer is at its working concentration, heat to 90-95°C for 5 minutes, then cool to room temperature (~15 minutes)

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