

ATW0023

Aptamer to Human IL-7

Selection Information

Target for Selection: Recombinant human IL-7, PeproTech Cat# 200-07

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: Microscale Thermophoresis analysis (MST)

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

Average kD: 162.4 ± 30.7 nM

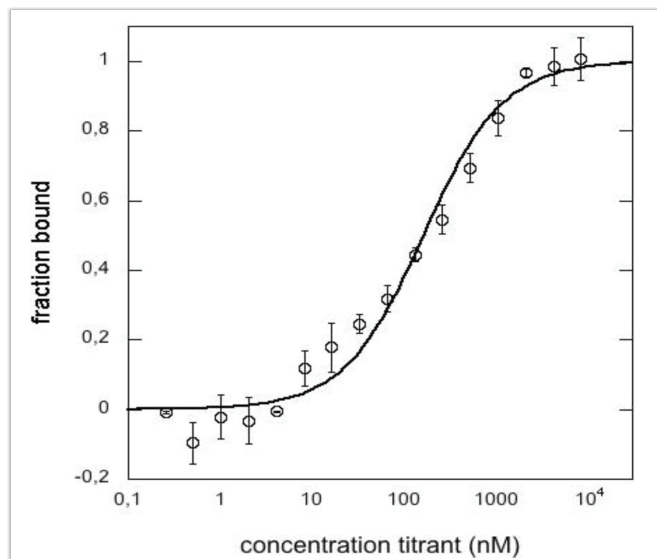


Figure 1. Aptamer-IL-7 Binding

The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.981$

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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