

ATW0057

Aptamer to Human CD63

Selection Information

Target for Selection: Recombinant Human CD63, aa 103-203, corresponding to one of the two extracellular domains, expressed in bacteria; MyBioSource Cat# MBS968215.

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, pH 7.4

Average K_d: 29.9 nM

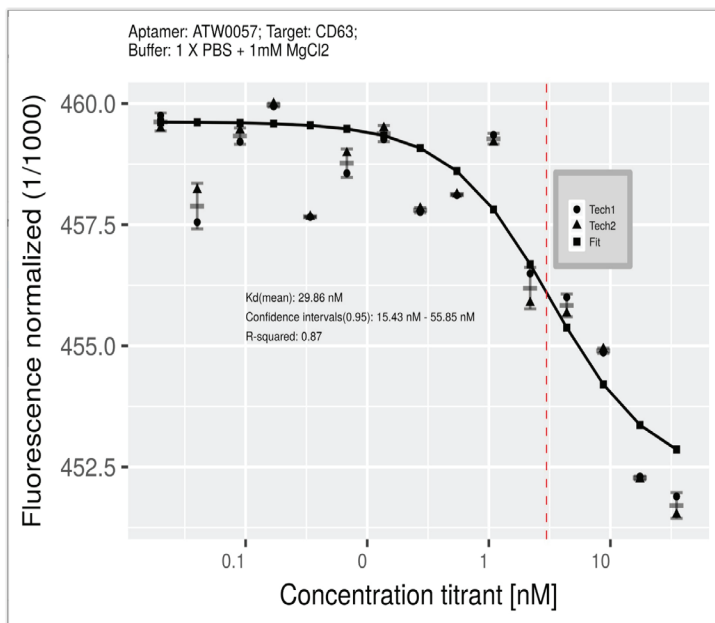


Figure 1. Aptamer-CD63 Binding

The normalized fluorescence is plotted versus the titrated target concentration, R² = 0.87

Aptamer Folding

For optimal binding, aptamers must be folded into their tertiary structure prior to use. Dilute to 10x - 100x working concentration in Folding Buffer, heat to 90-95°C for 5 minutes, then cool to room temperature (~15 minutes)