

ATW0083

Aptamer to Mouse IL-6

Selection Information

Target for Selection: Recombinant mouse Interleukin-6 (IL-6), BioLegend Cat# 575706

Number of DNA Nucleotides: 32

Aptamers were selected from a randomized Base Pair 32-mer DNA library against the target molecule. This aptamer was selected to form a sandwich pair with mouse IL-6 aptamer ATW0077.

Affinity Determination

Affinity Determination Method: Microscale Thermophoresis (MST) Analysis

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

Average K_D: 20.6 nM

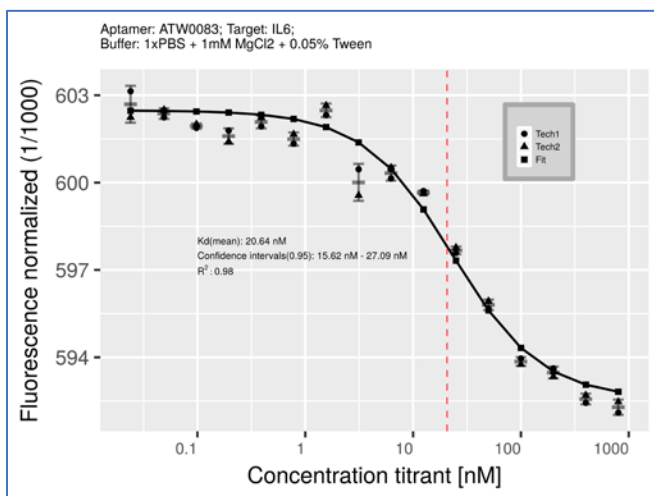


Figure 1. Aptamer-IL-6 Sandwich Pair Binding. The fraction of bound secondary aptamer is plotted versus the titrated target-IL-6 aptamer concentration, $R^2 = 0.98$

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)