

## 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

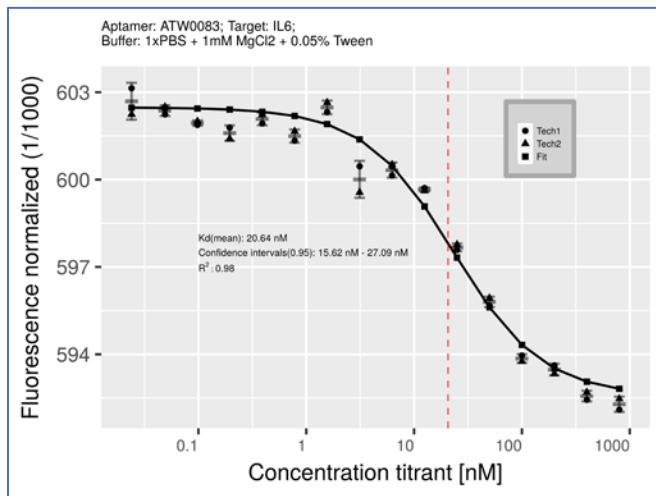
Aptamers were selected from a randomized Base Pair 32-mer DNA library against the target molecule. This aptamer was selected to form a sandwich pair with mouse IL-6 aptamer ATW0077.

### Affinity Determination

**Affinity Determination Method:** Microscale Thermophoresis (MST) Analysis

**Buffer Used for Affinity Determination:** 1 x PBS pH = 7.4, 1mM MgCl<sub>2</sub>, 0.05% Tween 20

**Average K<sub>D</sub>:** 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)