

## APTAMERS INFORMATION

### IL-6 aptamer\_3\_190:876 Oligo #591

#### 1a. Description:

- Identifiers: 3\_190:876 (oligo # 591)
- Number of DNA nucleotides: 32 bases
- Target for selection: Recombinant Human IL-6 protein (R & D systems, Cat. #206-IL-010).

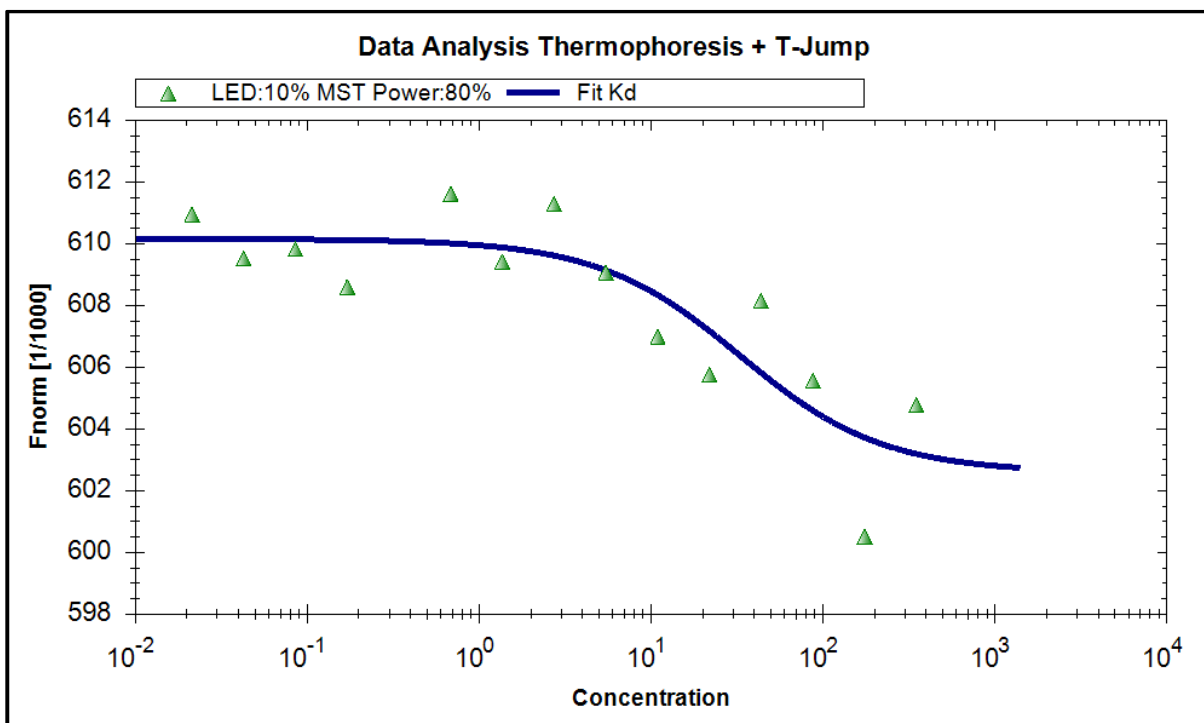
Aptamer was selected from a randomized 32-mer library against the IL6 protein. Proprietary methods were then used to select the aptamer.

#### Aptamer folding instruction before use:

Once the aptamer is in its working concentration, it needs to be heated to 85-90 °C for 2 minutes, and then cooled to room temperature before use.

#### 1b. Validation data with IL6 by MST (Microscale Thermophoresis) method:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl<sub>2</sub>, and 0.05% Tween
- Average  $K_d$  = 19 ± 4.5 nM



**Figure 1.** Aptamer-IL6 binding. The thermophoresis is plotted versus the titrated IL6 concentration.