

## APTAMER INFORMATION

### Synuclein\_1.52\_4

#### 1a. Description:

- *Identifiers:* Synuclein\_1.52\_4
- *Number of DNA nucleotides:* 70 bases
- *Target for selection:* Recombinant Human  $\gamma$ -Synuclein, Sigma (Catalog #S3071)

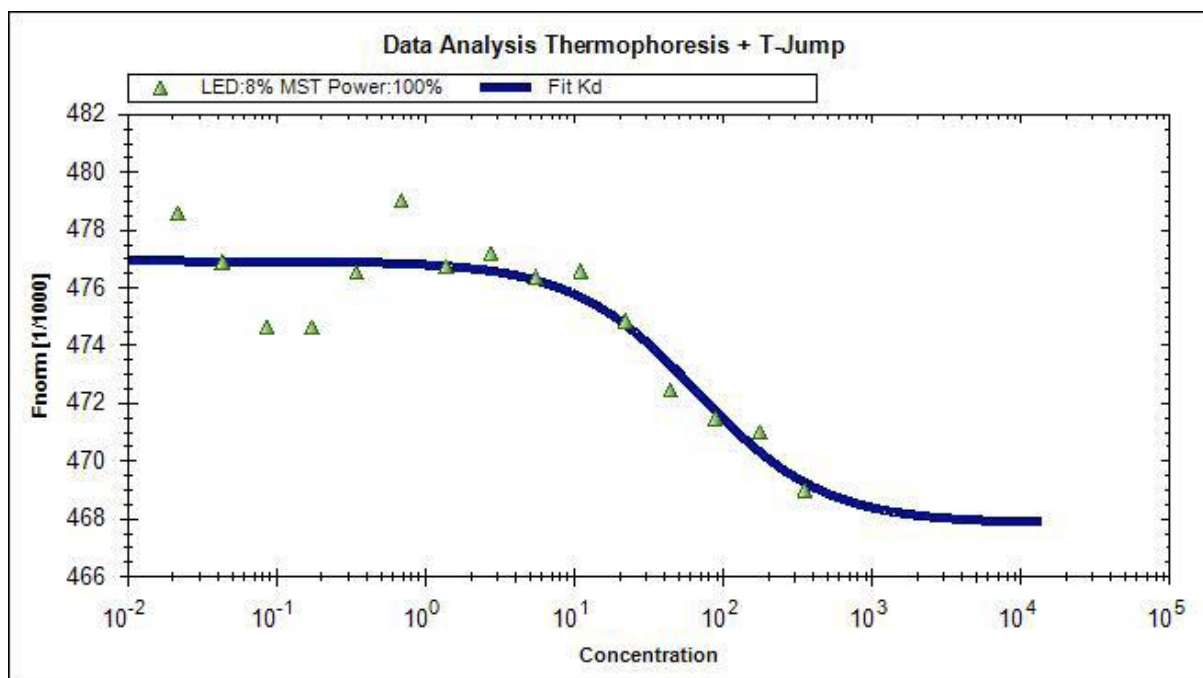
Aptamer was selected from a randomized 32-mer library against Human  $\gamma$ -Synuclein protein. Proprietary methods were then used to select the aptamer.

#### 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 $\gamma$ -Synuclein by MST (Microscale Thermophoresis) method:

- *Buffer used for validation:* 1X PBS, pH = 7.4, 1 mM MgCl<sub>2</sub>
- *Average  $K_d$*  = 47.2  $\pm$  6.5 nM



**Figure 1.** Aptamer- Synuclein binding. The thermophoresis is plotted versus the titrated  $\gamma$ -Synuclein concentration.