

APTAMER INFORMATION

hCG 19-C09 aptamer #387

1a. Description:

- Identifiers: 19-C09 (Oligo# 387)
- Number of DNA nucleotides: 40 bases
- Target for selection: Human Chorionic gonadotropin protein, Sigma (Catalog #C1063)

Aptamer was selected from a randomized 40-mer library against hCG 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 hCG by MST (Microscale Thermophoresis) method:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl₂
- Average K_d = 57.5 ± 7.8 nM

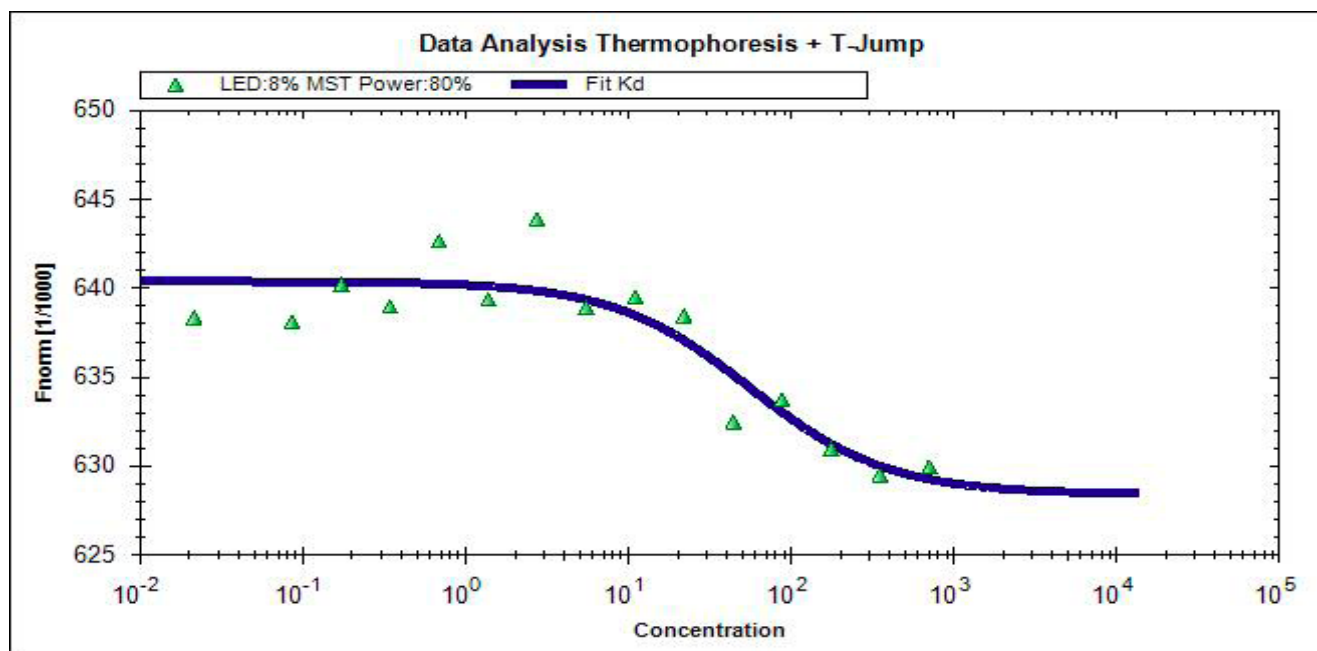


Figure 1. Aptamer-hCG binding. The thermophoresis is plotted versus the titrated hCG concentration.