



## APTAMER INFORMATION

### Fibrinogen 6F01 Aptamer #370

#### 1a. Description:

- Identifiers: 6F01 (Oligo# 370)
- Number of DNA nucleotides: 40 bases (without 3'-6T), 46 bases (with 3'-6T)
- Molecular weight (includes 3'-6T and biotin): 14,715.6 g/mol
- Target for selection: **Fibrinogen, Sigma (Cat. #F3879)**

Aptamer was selected from a randomized 40-mer library against Fibrinogen. Proprietary methods were then used to select the aptamer.

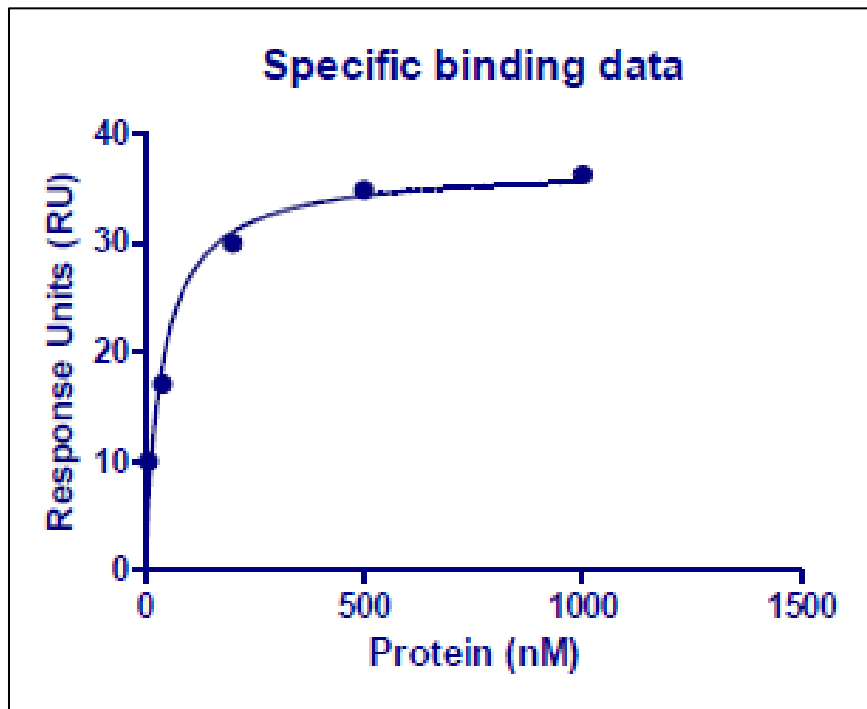
#### Aptamer folding instruction before use:

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 Fibrinogen protein by Surface Plasmon resonance (SPR):

- Immobilized Ligand: Fibrinogen aptamer # 370 with 3'-6T and biotin
- Analyte: Fibrinogen protein
- Buffer used for validation: 20 mM Tris, 100 mM NaCl, 0.005% Tween20, in nuclease free water, pH 7.4
- Equilibrium Binding Analysis (GraphPad), Avg  $K_d$  = 38.47 nM





**Figure 1.** GraphPad equilibrium binding analysis image of Fibrinogen aptamer #370 binding with Fibrinogen protein at various concentrations.

