



## APTAMER INFORMATION

### Heparan Sulfate # 202

#### 1a. Description:

- Identifiers: Heparan Sulfate (Oligo# 202)
- Number of DNA nucleotides: 39 bases (without 3'-9AT), 57 bases (with 3'-9AT)
- Molecular weight (includes 3'-9AT and biotin): 17,741.71 g/mol
- Target for selection: **Heparan Sulfate, Sigma (Part No. H4777).**

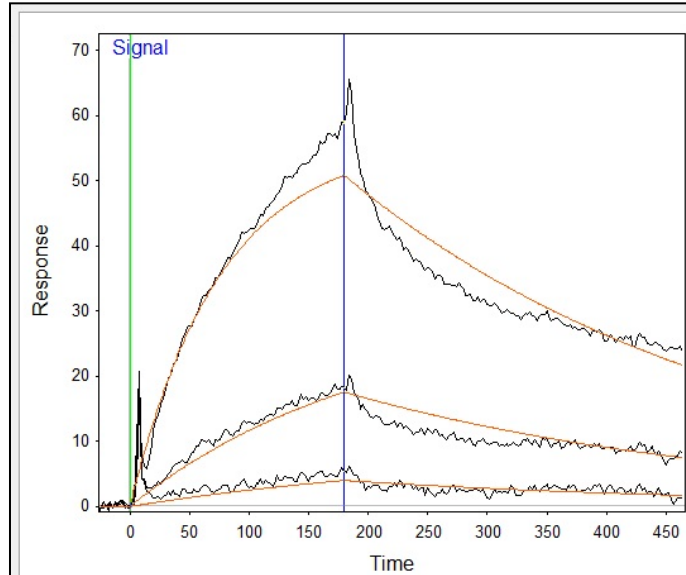
Aptamer was selected from a randomized 40-mer library against Heparan Sulfate. Proprietary methods were then used to select the aptamer.

#### 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 Heparan Sulfate by Surface Plasmon resonance (SPR):

- Immobilized Ligand: Heparan Sulfate aptamer (Oligo# 202) with 3'-9AT
- Analyte: Heparan Sulfate
- Buffer used for validation: 20 mM Tris, 100 mM NaCl, 0.005% Tween20 in nuclease free water, pH 7.4
- Equilibrium Binding Analysis, **Avg  $K_d$  = 7.3 nM**



**Figure 1.** Specific Binding data for Heparan sulfate aptamer (Oligo # 202) and Heparan Sulfate molecule