



## APTAMER INFORMATION

### Ribonucleotide Reductase M2 polypeptide (RRM2) #339

#### 1a. Description:

- Identifiers: NCI000010 (Oligo # 339)
- Number of DNA nucleotides: 40 bases (without 3'-12T), 52 bases (with 3'-12T)
- Molecular weight (includes 3'-12T and biotin): 16,369.8 g/mol
- Target for selection: Ribonucleotide Reductase M2 polypeptide (RRM2), Prospec (Cat# ENZ-523)

Aptamer was selected from a randomized 40-mer library against RRM2 polypeptide. Proprietary methods were then used to select the aptamer.

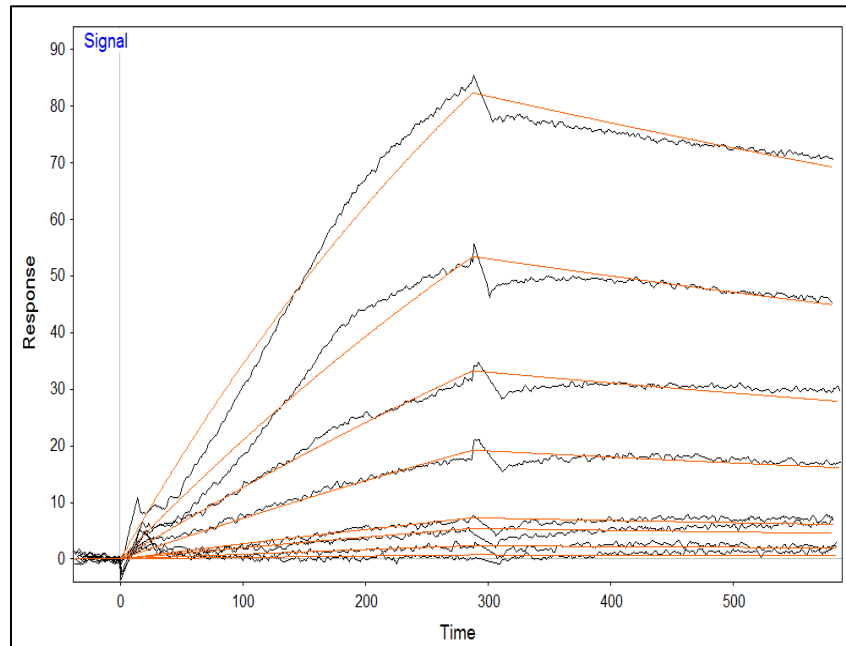
#### Aptamer folding instruction before use:

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 RRM2 by Surface Plasmon resonance (SPR):

- Immobilized Ligand: RRM2 aptamer #339 with 3'-12T and biotin
- Analyte: RRM2 polypeptide
- Buffer used for selection and for validation: 1X PBS, pH = 7.4
- Equilibrium Binding Analysis (Qdat), Avg  $K_d$  = 58.1 nM





**Figure 1.** Specific Binding data for RRM2 aptamer (Oligo # 339) and RRM2 polypeptide