



APTAMER INFORMATION

Human Latency Associated Peptide (LAP, TGF- β 1) #425

1a. Description:

- Identifiers: LAP (Oligo# 425)
- Number of DNA nucleotides: 39 bases (without 3'-7T), 46 bases (with 3'-7T)
- Molecular weight (includes 3'-7T and biotin): 14,256.4 g/mol
- Target for selection: **Recombinant Human LAP TGF- β 1, R&D Systems (Cat# 246-LP/CF)**

Aptamer was selected from a randomized 40-mer library against LAP peptide. 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 LAP peptide by Surface Plasmon resonance (SPR):

- Immobilized Ligand: LAP aptamer #425 with 3'-7T and biotin
- Analyte: LAP peptide
- Buffer used for selection and for validation: 1X PBS, pH = 7.4
- Equilibrium Binding Analysis (Qdat), **Avg K_d = 5.6 nM**



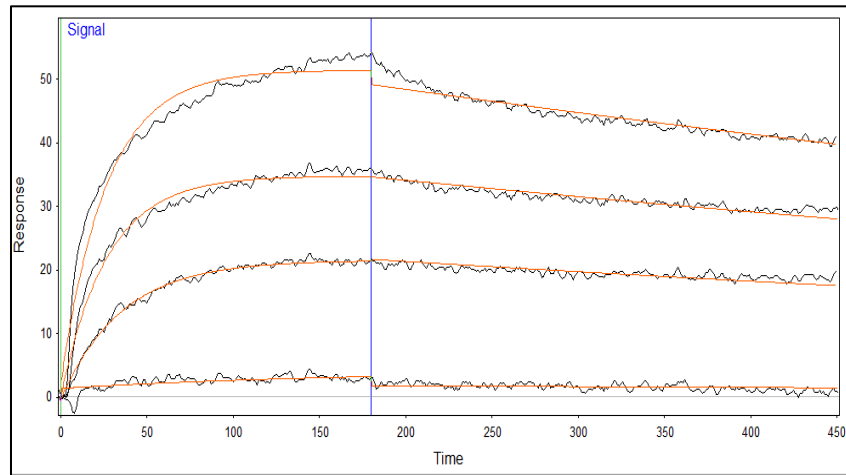


Figure 1. Specific Binding data for LAP aptamer (Oligo # 425) and LAP peptide