

ATW0072

Aptamer to Vomitoxin

Selection Information

Target for Selection: Deoxynivalenol (Vomitoxin) Sigma# D0156

Number of DNA Nucleotides: 79 (with primers)

Aptamers were selected from a randomized Base Pair 32-mer DNA library against the target protein. Proprietary methods were used to select this specific aptamer sequence.

Affinity Determination

Affinity Determination Method: Back-Scattering Interferometry (BSI)

Buffer Used for Affinity Determination: 1 x PBS, 1mM MgCl₂, pH 7.4

Average K_d: 2.4 nM

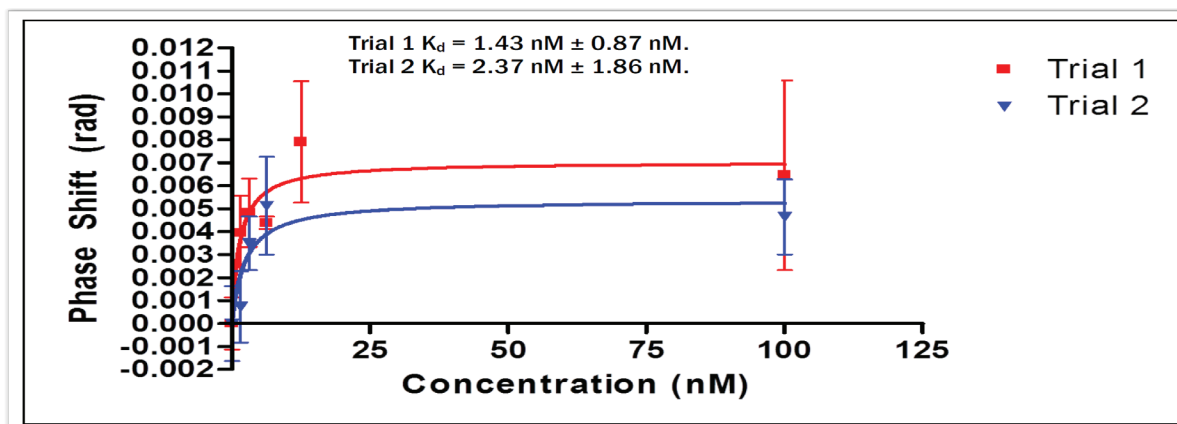


Figure 1. Aptamer-Vomitoxin Binding

The phase shift of bound aptamer is plotted versus the titrated vomitoxin concentration. The values are the mean values from three independent measurements.

Aptamer Folding

For optimal binding, aptamers must be folded into their tertiary structure prior to use. Once the aptamer is at its working concentration, heat to 90-95°C for 5 minutes, then cool to room temperature (~15 minutes)

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