

ATW0062

Aptamer to Mouse MMP-3

Selection Information

Target for Selection: Mouse matrix metalloproteinase-3, MMP-3

Number of DNA Nucleotides: 70 (with primers)

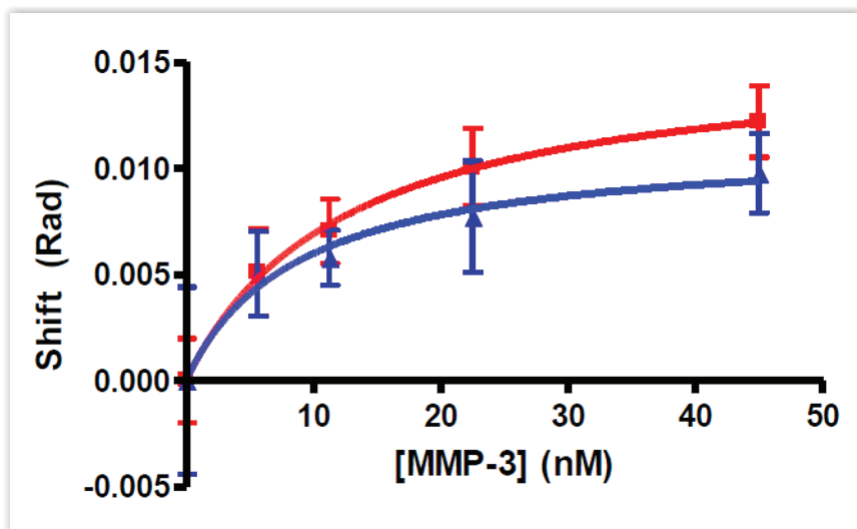
Aptamers were selected from a randomized Base Pair 32-mer DNA library against the target protein. Proprietary methods were used to select this specific aptamer sequence.

Affinity Determination

Affinity Determination Method: Back-Scattering Interferometry (BSI)

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

Average kD: 12.5 ± 1.2 nM



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Figure 1. Aptamer-MMP-3 Binding

The BSI response is plotted versus the titrated target 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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