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## ATW0077 and ATW0083

## APTAMER INFORMATION

## IL6 sandwich pair

## ATW0077

## Description:

- Identifiers: EALRN
- Number of DNA nucleotides. 32 bases
- Target for selection: Recombinant mouse interleukin 6, IL6 (BioLegend Cat\# 575706)

Aptamer was proudly selected at Base Pair Biotechnologies from a randomized 32-mer DNA library against the target protein. 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 $85-95^{\circ} \mathrm{C}$ for 5 minutes, and then cooled to room temperature ( $\sim 15$ minutes) before use.

Validation data by Microscale Thernophoresis (MST) analysis:

- Buffer used for validation: $1 \mathrm{XPBS}, \mathrm{pH}=7.4,1 \mathrm{mM} \mathrm{MgCl} 2,0.05 \%$ Tween
- Average $K_{d}: 7.4 \pm 1.7 \mathrm{nM}$


Figure 1. Aptamer-IL6 binding. The fraction of bound aptamer is plotted versus the titrated target aptamer concentration, $\mathrm{R}^{2}=0.981$.

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## ATW0083

## Description:

- Identifiers. D95W1
- Number of DNA nucleotides. 32 bases

Aptamer was selected to form a sandwich pair with the EALRN-mouse recombinant interleukin 6 protein complex as shown in Figure 2.


Figure 2. Sandwich assay. Aptamer D95W1 binds aptamer EALRN-mouse recombinant interleukin 6 protein complex.
Validation data by Microscale Thernophoresis (MST) analysis:

- Buffer used for validation: $1 \mathrm{XPBS}, \mathrm{pH}=7.4,1 \mathrm{mM} \mathrm{MgCl} 2,0.05 \%$ Tween
- Average Kd: $28.3 \pm 5.0 \mathrm{nM}$


Figure 3. Aptamer-IL6 sandwich pair binding. The fraction of bound secondary aptamer is plotted versus the titrated targetIL6 aptamer concentration, $\mathrm{R}^{2}=0.985$.

