

ATW0023

APTAMER INFORMATION

IL7 #204

Description:

- *Identifiers:* IL7 16 plex #204
- *Number of DNA nucleotides:* 40 bases
- *Target for selection:* Human Interleukin 7 protein (PeproTech, Inc Cat #200-07)

Aptamer was selected at Base Pair Biotechnologies from a randomized 40-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 °C for 5 minutes, and then cooled to room temperature (~ 15 minutes) before use.

Validation data by Microscale Thermophoresis (MST) analysis:

- *Buffer used for validation:* 1X PBS, pH = 7.4, 1 mM MgCl₂, 0.05% Tween
- *Average K_d:* 162.4 ± 30.7 nM

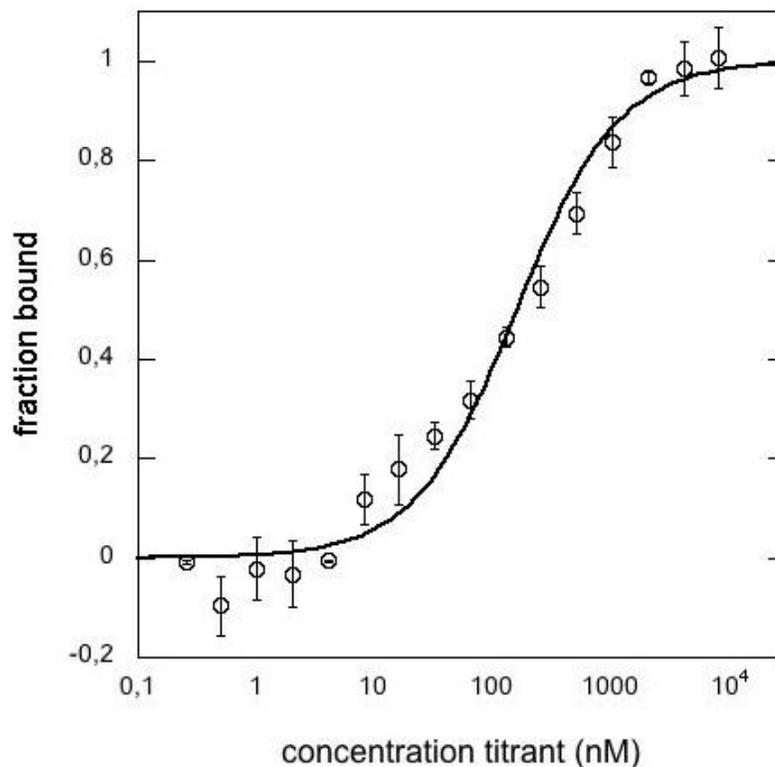


Figure 1. Aptamer-IL7 binding. The fraction of bound aptamer is plotted versus the titrated target concentration, R² = 0.981.