



ATW0090

APTAMER INFORMATION

D4MWF

Description:

- **Identifiers:** D4MWF
- **Number of DNA nucleotides:** 32 bases
- **Target for selection:** phosphorylated 183 ERK2 (aa 171-189) CVADPDHDTGFL(t)EYVATR

Aptamer was selected at Base Pair Biotechnologies from a randomized 32-mer DNA library against the target 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 85-95°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, 1mM MgCl₂, 0.02% Tween, + 20% Human Serum
- **Average K_d:** 7.7 ± 2.2 nM

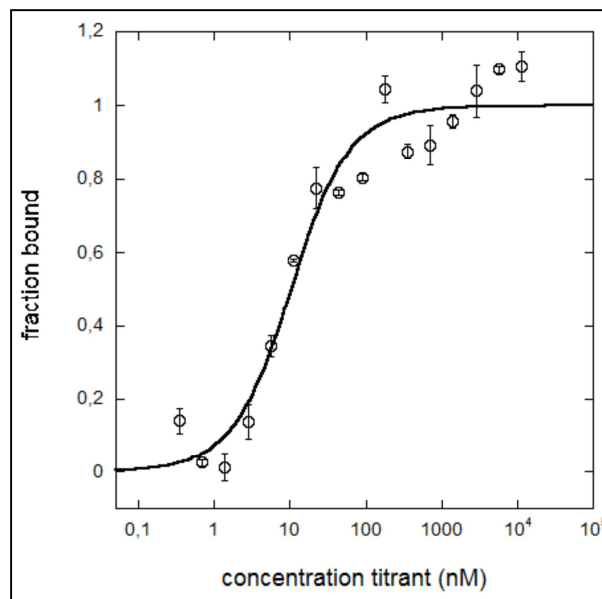


Figure 1. D4MWF - phosphorylated ERK2 (aa 171-189) peptide binding. The normalized fluorescence of the aptamer is plotted versus the titrated target concentration.

Target for MST analysis: phosphorylated 185 ERK2 CVADPDHDTGFLTE(y)VATR

- **Buffer used for validation:** 1X PBS, 1mM MgCl₂, 0.02% Tween, + 20% Human Serum
- **Average K_d:** No Binding indicated