



ATW0079

APTAMER INFORMATION

Brain Natriuretic Peptide

Description:

- **Identifiers:** BNP D2A4F
- **Number of DNA nucleotides:** 32 bases
- **Target for selection:** Brain natriuretic peptide, BNP (BACHEM, Cat # H-9060.0500)

Aptamer was 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 °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 :** 61.3 ± 9.9 nM

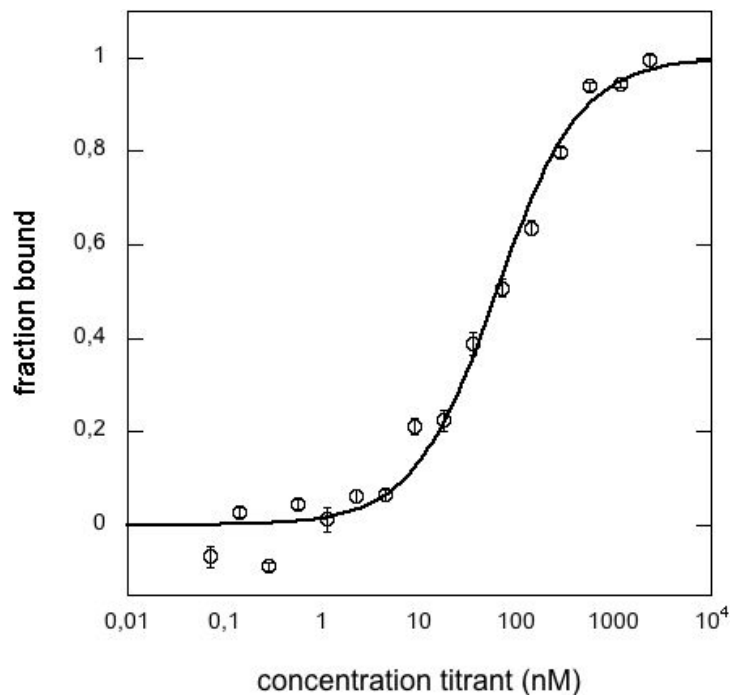


Figure 1. Aptamer-BNP binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.986$.