

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

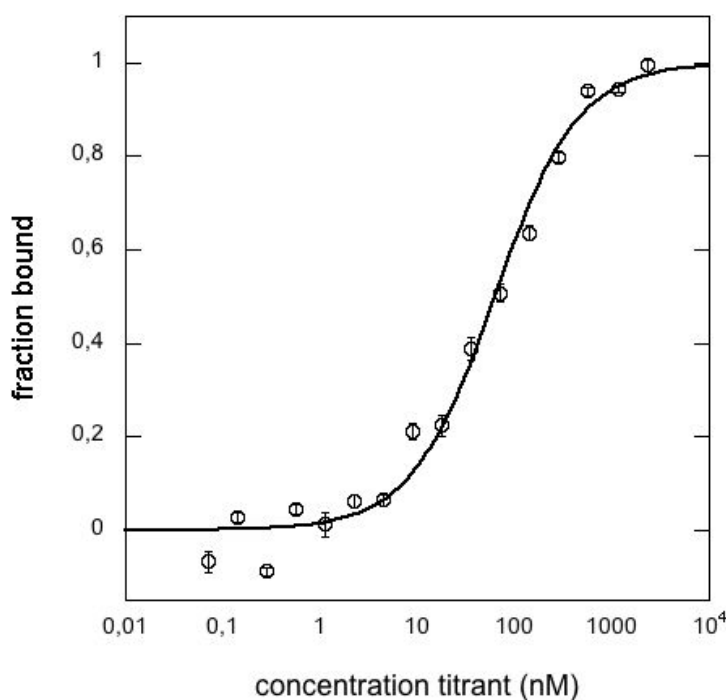


Figure 1. Aptamer-BNP binding. The fraction of bound aptamer is plotted versus the titrated target concentration, R² = 0.986.