

ATW0085

APTAMER INFORMATION

FGGKI Alpha

Description:

- **Identifiers:** FGGKI Alpha
- **Number of DNA nucleotides:** 32 bases
- **Target for selection:** Human Serum Albumin (HSA) (Sigma, Cat #A9511)

Aptamer was selected from a randomized 32-mer modified DNA library against the HSA 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 85-90 °C for 2 minutes, and then cooled to room temperature before use.

Validation data with HSA by MST (Microscale Thermophoresis) method:

- **Buffer used for validation:** 1X PBS, pH = 7.4, 1 mM MgCl₂, and 0.05% Tween-20
- **Average K_d = 247.6 ± 97.5 nM**

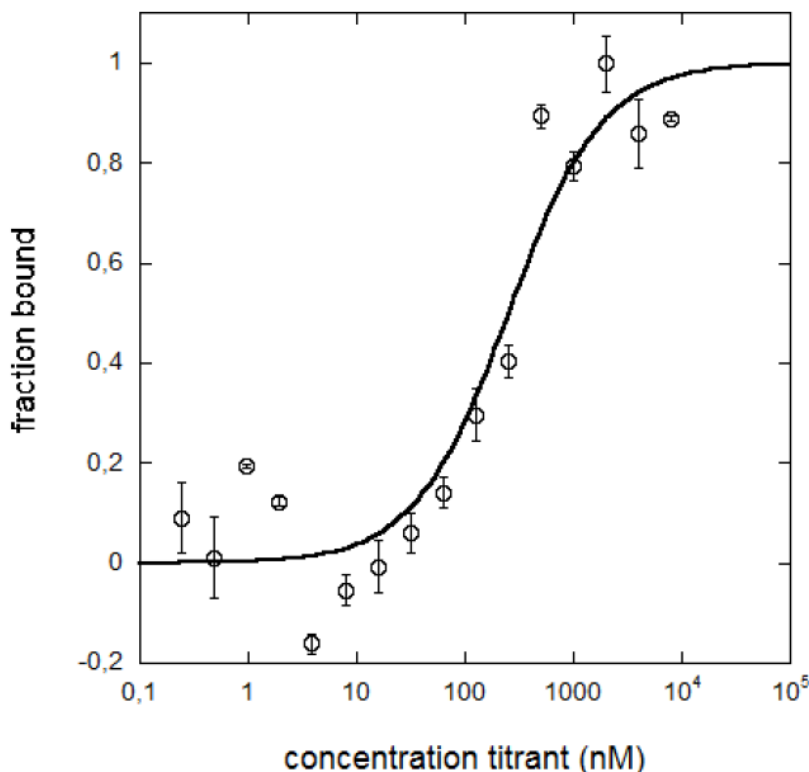


Figure 1. Aptamer-HSA binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2=0.92$.