

ATW0055

APTAMER INFORMATION

CA125 A612DS

Description:

- **Identifiers:** CA125 A612DS
- **Number of DNA nucleotides:** 70 bases
- **Target for selection:** Recombinant Human CA125/MUC16 (R&D Systems Cat# 5609-MU)

Aptamer was selected at Base Pair from a randomized 32-mer DNA library against the target protein 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 with the target protein by Microscale Thermophoresis (MST) method:

- **Buffer used for validation:** 1X PBS, pH = 7.4, 1 mM MgCl₂, 0.05% Tween
- **Average K_d :** 26.1 ± 2.8 nM

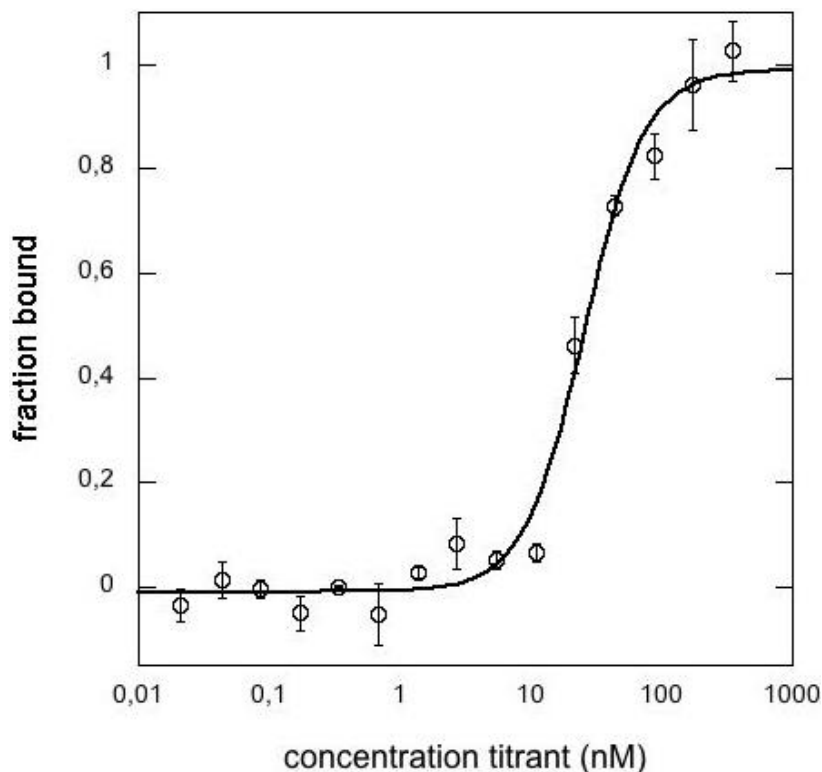


Figure 1. Aptamer-CA125/MUC16 binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.987$.