

ATW0052

APTAMER INFORMATION

CEACAM1/CD66a A3RPZ

Description:

- **Identifiers:** CEACAM-1/CD66a A3RPZ
- **Number of DNA nucleotides:** 32 bases
- **Target for selection:** Recombinant CEACAM-1/CD66a human protein (R&D Systems Cat# 2244-CM-050)

Aptamer was selected at Base Pair Biotechnologies from a randomized 32-mer DNA library against 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 :** 98.4 ± 15.3 nM

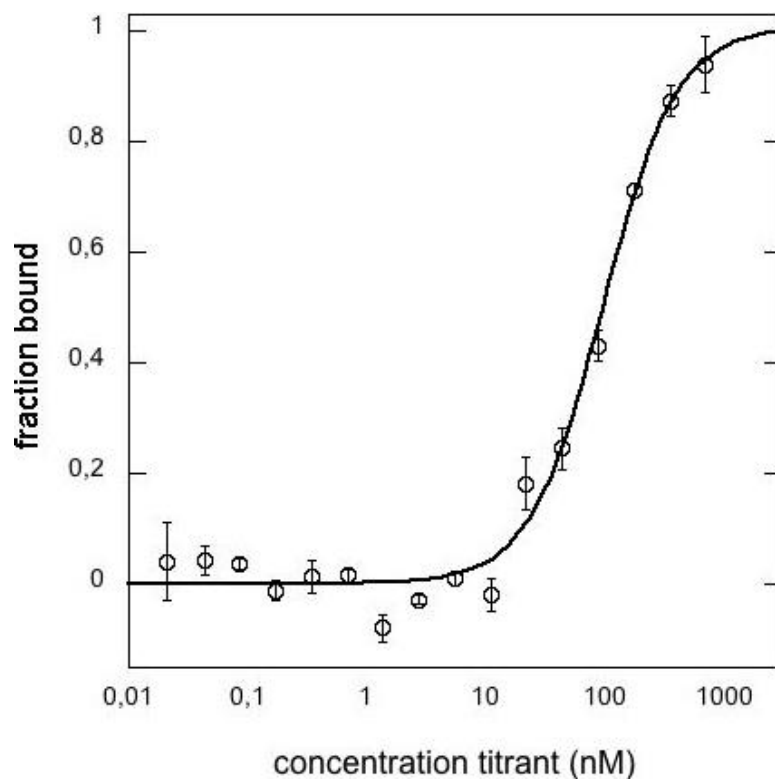


Figure 1. Aptamer-CD63 binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.986$.