

ATW0047

APTAMER INFORMATION

Granzyme 3.50-3

Description:

- Identifiers: Granzyme 3.50-3
- Number of DNA nucleotides: 70 bases
- Target for selection: Recombinant Human Granzyme B (R&D Systems Cat# 2906-SE-010)

Aptamer was selected at Base Pair from a randomized 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 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 : 25.8 ± 3.9 nM

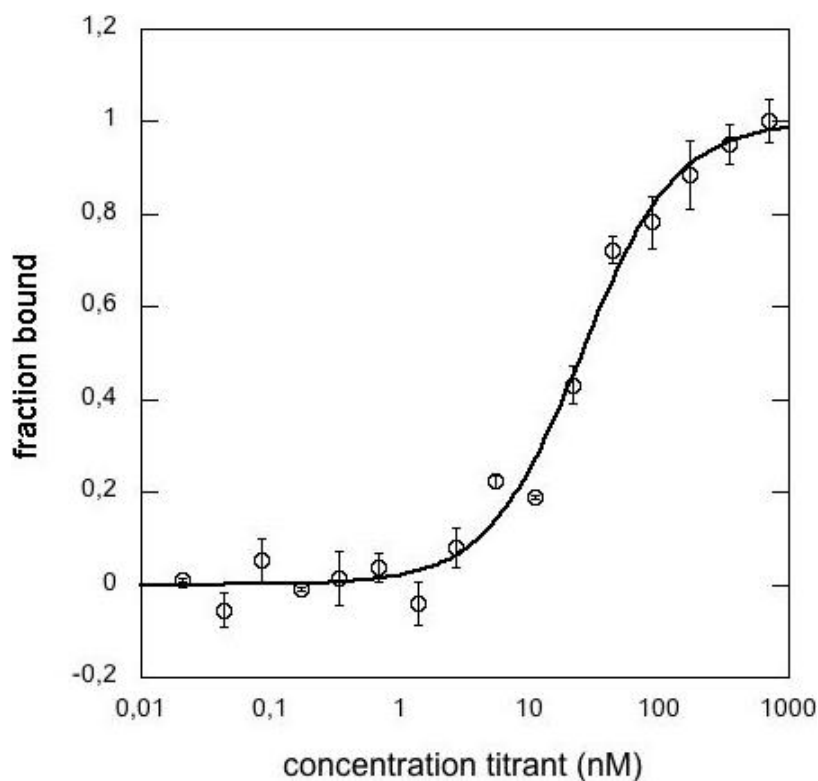


Figure 1. Aptamer-Granzyme B binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.986$.