

ATW0064

APTAMER INFORMATION

Dengue virus type 2 NS1 BRCAx

Description:

- *Identifiers:* BRCAx
- *Number of DNA nucleotides:* 32 bases
- *Target for selection:* Recombinant Dengue Virus Type 2 NS1 Protein (CTK Biotech, Cat. #A2312)

Aptamer was selected at Base Pair Biotechnologies from a randomized 32-mer DNA library against recombinant Dengue virus type 2 NS1 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 Dengue virus type 2 NS1 protein by Microscale Thermophoresis (MST) method:

- *Buffer used for validation:* 1X PBS, pH = 7.4, 1 mM MgCl₂, 0.05% Tween
- *Average K_d:* 9.2 ± 2.75 nM

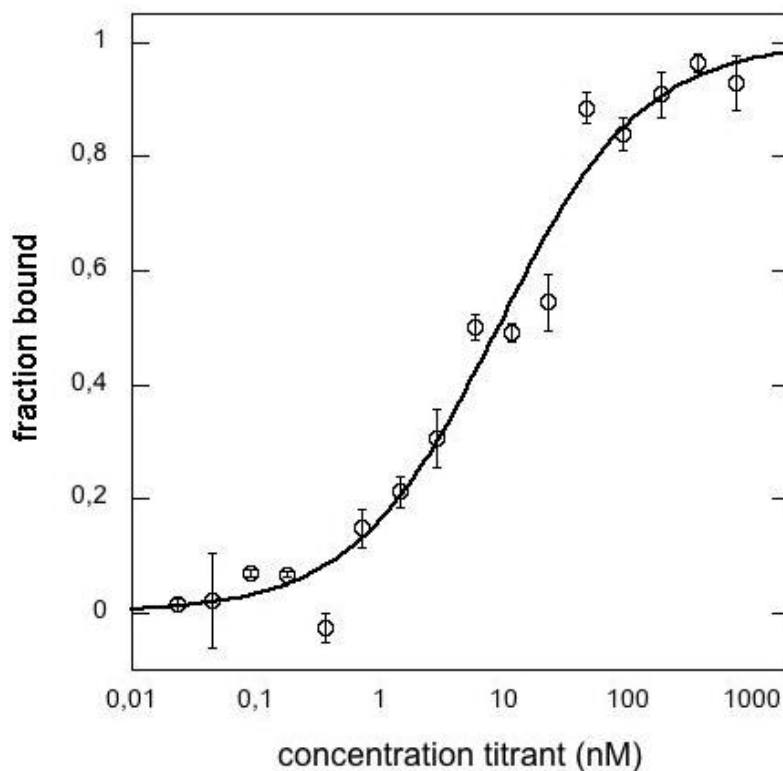


Figure 1. Aptamer-Dengue virus type 1 NS1 protein binding. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.975$.