

ATW0050

## APTAMER INFORMATION

### Glutathione S-transferase pi 1 (GSTP1) BMTBO

#### Description:

- *Identifiers:* GSTP1 BMTBO
- *Number of DNA nucleotides:* 32 bases
- *Target for selection:* **GSTP1, Human Recombinant Glutathione S-Transferase Pi 1 (ProSpec Bio, Cat. # ENZ-427)**

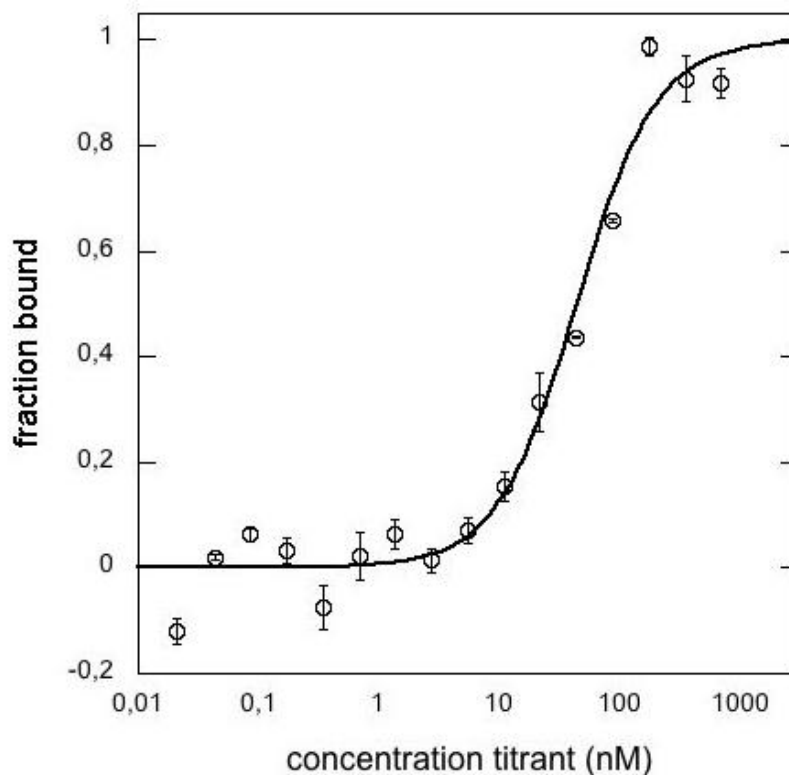
Aptamer was selected at Base Pair from a randomized 32-mer DNA library against GSTP1 protein. Proprietary methods were then used to select the aptamer.

#### 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 GSTP1 protein by Microscale Thermophoresis (MST) method:

- *Buffer used for validation:* 1X PBS, pH = 7.4, 1 mM MgCl<sub>2</sub>, 0.05% Tween
- *Average K<sub>d</sub>:* 44.8 ± 8.9 nM



**Figure 1.** Aptamer-GSTP1 binding. The fraction of bound aptamer is plotted versus the titrated GSTP1 concentration,  $R^2 = 0.975$ .