

ATW0060

APTAMER INFORMATION

Procalcitonin A608F

Description:

- Identifiers: Procalcitonin A608F
- Number of DNA nucleotides: 70 bases
- Target for selection: Recombinant human procalcitonin (ProSpec Bio Cat #HOR-304)

Aptamer was selected at Base Pair Biotechnologies 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 by Microscale Thermophoresis (MST) analysis:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl₂, 0.05% Tween
- Average K_d : 54.2 ± 16.7 nM

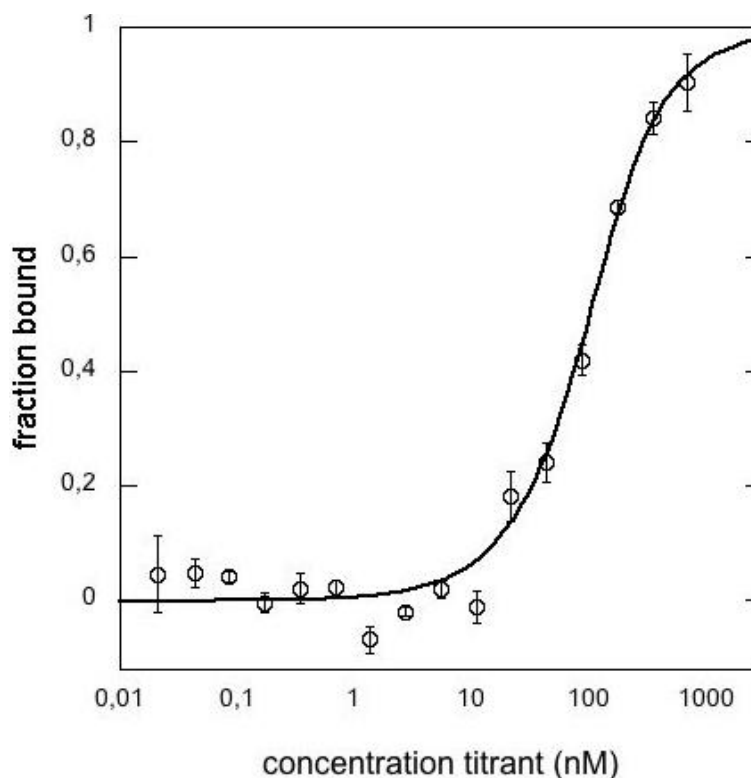


Figure 1. Aptamer-Procalcitonin. The fraction of bound aptamer is plotted versus the titrated target concentration, $R^2 = 0.984$.