

APTAMER INFORMATION

A4ROD

Description:

- Identifiers: A4ROD
- Number of DNA nucleotides: 70 bases
- Target for selection: Recombinant mCherry Fluorescent Protein, Biovision (Cat. # 4993-100)

Aptamer was selected from a randomized 32-mer library against the mCherry 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 85-90 °C for 2 minutes, and then cooled to room temperature before use.

1b. Validation data with mCherry by MST (Microscale Thermophoresis) method:

- Buffer used for validation: 1X PBS, pH = 7.4, 1 mM MgCl₂
- Average K_d = 264 ± 56 nM

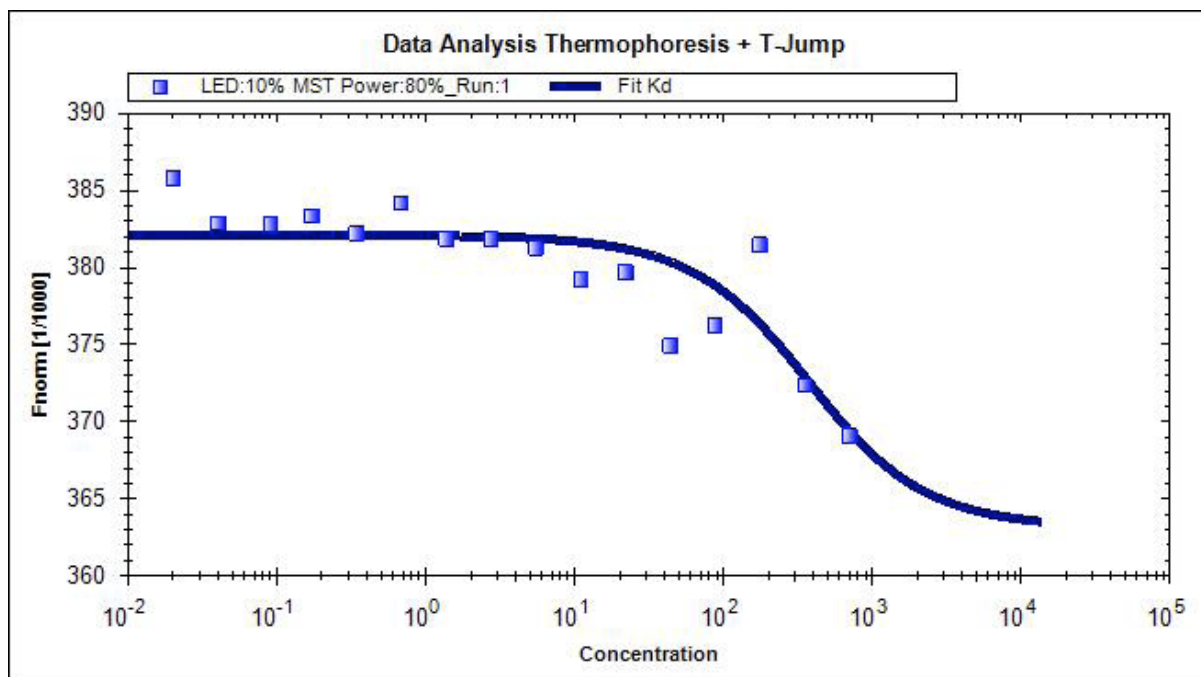


Figure 1. Aptamer-mCherry binding. The thermophoresis is plotted versus the titrated mCherry concentration.