

Sensorgrams obtained for each replicate of peptide 17 / PhdSTm52-73 L70A (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 100 nM to 0.412 nM (3-fold dilutions). In all replicates the association time was 80s. The dissociation times were 1000 s for replicates 1 and 2 and 400 s for replicate 3.

Summary of the fitted parameters obtained from each SPR measurement of peptide 17.

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| **Replicate** | **kon (M-1 s-1)** | **koff (s-1)** | **KD (nM)** | **RMAX (RU)** | **tC (RU M-1 s-1)** | **Chi2 (RU2)** | **U-value** |
| **1** | 2.873 ± 0.027 × 106 | 6.019 ± 0.059 × 10-3 | 2.10 | 28.4 ± 0.04 | 1.078 ± 0.008 × 107 | 0.464 | 2 |
| **2** | 3.197 ± 0.035 × 106 | 6.343 ± 0.075 × 10-3 | 1.98 | 30.3 ± 0.04 | 1.034 ± 0.008 × 107 | 0.584 | 2 |
| **3** | 5.440 ± 0.089 × 106 | 5.540 ± 0.079 × 10-3 | 1.02 | 23.2 ± 0.04 | 2.390 ± 0.044 × 107 | 0.730 | 3 |