

Sensorgrams obtained for each replicate of peptide 6 / PhdSTm52-73 F56A (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 6.

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| **Replicate** | **kon (M-1 s-1)** | **koff (s-1)** | **KD (pM)** | **RMAX (RU)** | **tC (RU M-1 s-1)** | **Chi2 (RU2)** | **U-value** |
| **1** | 7.135 ± 0.010 × 105 | 7.167 ± 0.008 × 10-4 | 1000 | 34.1 ± 0.01 | 1.322 ± 0.850 × 1013 | 0.285 | 1 |
| **2** | 7.641 ± 0.010 × 105 | 7.021 ± 0.007 × 10-4 | 919 | 35.8 ± 0.01 | 5.990 ± 3.730 × 1010 | 0.257 | 1 |
| **3** | 14.90 ± 0.03 × 105 | 11.10 ± 0.03 × 10-4 | 745 | 27.6 ± 0.01 | 2.910 ± 2.760 × 1013 | 0.237 | 1 |