

Sensorgrams obtained for each replicate of peptide 3 / PhdSTm52-73 D53A (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 50 nM to 0.206 nM (3-fold dilutions). The association times were 80s for replicates 1 and 2 and 200 s for replicate 3. In all replicates the dissociation time was 1200 s.

Summary of the fitted parameters obtained from each SPR measurement of peptide 3.

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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** | 5.480 ± 0.010 × 106 | 6.650 ± 0.052 × 10-5 | 12.1 | 31.2 ± 0.01 | 4.970 ± 3.920 × 1012 | 0.434 | 5 |
| **2** | 4.980 ± 0.009 × 106 | 8.250 ± 0.052 × 10-5 | 16.6 | 30.8 ± 0.01 | 1.280 ± 3.230 × 1014 | 0.449 | 5 |
| **3** | 4.760 ± 0.008 × 106 | 4.720 ± 0.049 × 10-5 | 9.92 | 30.2 ± 0.01 | 3.270 ± 9.670 × 1013 | 0.358 | 7 |