

Sensorgrams obtained for each replicate of peptide 4 / PhdSTm52-73 D54A (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 4.

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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** | 4.580 ± 0.008 × 106 | 5.840 ± 0.050 × 10-5 | 12.8 | 31.1 ± 0.01 | 3.560 ± 3.570 × 1014 | 0.388 | 5 |
| **2** | 4.890 ± 0.007 × 106 | 8.120 ± 0.046 × 10-5 | 16.6 | 30.6 ± 0.01 | 2.390 ± 2.430 × 1013 | 0.347 | 5 |
| **3** | 4.730 ± 0.008 × 106 | 4.760 ± 0.049 × 10-5 | 10.1 | 30.2 ± 0.01 | 4.950 ± 9.790 × 1012 | 0.365 | 7 |