

Sensorgrams obtained for each replicate of peptide 19 / PhdSTm52-73 K73A (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). In all replicates the association time was 80s. The dissociation times were 1000 s for replicates 1 and 2, and 1200 s for replicates 3 and 4.

Summary of the fitted parameters obtained from each SPR measurement of peptide 19.

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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** | 1.085 ± 0.001 × 106 | 1.092 ± 0.005 × 10-4 | 101 | 32.4 ± 0.01 | 4.165 ± 25.000 × 1012 | 0.211 | 3 |
| **2** | 2.120 ± 0.013 × 106 | 1.344 ± 0.006 × 10-4 | 63.4 | 22.1 ± 0.01 | 9.656 ± 0.560 × 107 | 0.127 | 2 |
| **3** | 1.280 ± 0.002 × 106 | 1.280 ± 0.003 × 10-4 | 100 | 26.5 ± 0.01 | 2.260 ± 8.360 × 1010 | 0.092 | 1 |
| **4** | 1.280 ± 0.004 × 106 | 1.320 ± 0.002 × 10-4 | 103 | 25.7 ± 0.01 | 6.870 ± 0.184 × 107 | 0.049 | 1 |