

Sensorgrams obtained for each replicate of peptide 12 / PhdSTm52-73 N65A (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 1300 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 12.

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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** | 1.259 ± 0.002 × 106 | 3.155 ± 0.005 × 10-4 | 251 | 33.5 ± 0.01 | 7.047 ± 1.700 × 1012 | 0.338 | 1 |
| **2** | 1.595 ± 0.003 × 106 | 2.643 ± 0.005 × 10-4 | 166 | 29.7 ± 0.01 | 4.890 ± 1.900 × 1012 | 0.311 | 1 |
| **3** | 1.290 ± 0.004 × 106 | 1.100 ± 0.003 × 10-4 | 85.3 | 27.6 ± 0.01 | 2.410 ± 0.026 × 107 | 0.077 | 2 |
| **4** | 1.440 ± 0.004 × 106 | 1.200 ± 0.002 × 10-4 | 83.3 | 25.9 ± 0.01 | 1.360 ± 0.006 × 107 | 0.032 | 1 |