

Sensorgrams obtained for each replicate of peptide 15 / PhdSTm52-73 R68A (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 replicate 1 and 2, and 1200 s for replicate 3.

Summary of the fitted parameters obtained from each SPR measurement of peptide 15.

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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** | 1.951 ± 0.003 × 106 | 2.436 ± 0.005 × 10-4 | 124 | 27.6 ± 0.01 | 6.39 ± 22.00 × 1012 | 0.245 | 1 |
| **2** | 1.566 ± 0.002 × 106 | 1.662 ± 0.004 × 10-4 | 106 | 20.8 ± 0.01 | 8.020 ± 2.600 × 1012 | 0.118 | 2 |
| **3** | 1.290 ± 0.004 × 106 | 1.440 ± 0.003 × 10-4 | 112 | 26.1 ± 0.01 | 2.240 ± 0.024 × 107 | 0.073 | 1 |