

Sensorgrams obtained for each replicate of peptide 11 / PhdSTm52-73 G64A (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 and dissociation times were 80 s and 1000 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 11.

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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** | 1.081 ± 0.001 × 106 | 1.420 ± 0.004 × 10-5 | 130 | 33.8 ± 0.01 | 4.702 ± 3.400 × 1011 | 0.156 | 2 |
| **2** | 3.070 ± 0.014 × 106 | 2.280 ± 0.005 × 10-5 | 74.3 | 28.4 ± 0.01 | 5.270 ± 0.073 × 107 | 0.125 | 1 |
| **3** | 2.900 ± 0.016 × 106 | 2.230 ± 0.006 × 10-5 | 76.9 | 27.7 ± 0.01 | 4.240 ± 0.062 × 107 | 0.143 | 1 |