

Sensorgrams obtained for each replicate of peptide 9 / PhdSTm52-73 V62A (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 9.

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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** | 1.798 ± 0.011 × 106 | 3.293 ± 0.008 × 10-4 | 183 | 33.8 ± 0.01 | 2.110 ± 0.220 × 108 | 0.365 | 1 |
| **2** | 1.649 ± 0.002 × 106 | 3.936 ± 0.006 × 10-4 | 239 | 22.7 ± 0.01 | 1.087 ± 0.230 × 1013 | 0.102 | 1 |
| **3** | 3.350 ± 0.015 × 106 | 4.420 ± 0.008 × 10-4 | 132 | 28.4 ± 0.01 | 6.920 ± 0.112 × 107 | 0.151 | 1 |