

Sensorgrams obtained for each replicate of peptide 5 / PhdSTm52-73 E55A (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 100 nM to 0.412 nM (3-fold dilutions) for replicates 1 and 2, and 50 nM to 0.206 nM (3-fold dilutions) for replicate 3. The association and dissociation times were 80 s and 1000 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 5.

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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** | 1.453 ± 0.003 × 106 | 7.105 ± 0.084 × 10-5 | 48.9 | 46.6 ± 0.02 | 1.410 ± 3.800 × 1013 | 1.390 | 7 |
| **2** |  1.461 ± 0.003 × 106 | 7.493 ± 0.082 × 10-5 | 51.3 | 47.4 ± 0.02 | 7.999 ± 8.400 × 1012 | 1.370 | 7 |
| **3** | 1.711 ± 0.003 × 106 | 8.018 ± 0.068 × 10-5 | 46.9 | 40.1 ± 0.02 | 3.497 ± 88.00 × 1013 | 0.627 | 5 |