

Sensorgrams obtained for each replicate of peptide 2 / PhdSTm52-73 M52A (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 2.

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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** | 1.039 ± 0.002 × 106 | 5.437 ± 0.066 × 10-5 | 52.3 | 44.9 ± 0.02 | 1.311 ± 0.500 × 1012 | 0.777 | 7 |
| **2** | 1.072 ± 0.002 × 106 | 5.126 ± 0.065 × 10-5 | 47.8 | 45.3 ± 0.02 | 2.159 ± 0.850 × 1012 | 0.792 | 7 |
| **3** | 1.297 ± 0.002 × 106 | 7.143 ± 0.057 × 10-5 | 55.1 | 36.7 ± 0.01 | 1.249 ± 6.100 × 1013 | 0.367 | 5 |