

Sensorgrams obtained for each replicate of peptide 21 / PhdSTm55-73 (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 1200 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 21.

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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** | 1.344 ± 0.004 × 106 | 5.508 ± 0.011 × 10-4 | 410 | 17.6 ± 0.01 | 9.656 ± 17.000 × 1012 | 0.292 | 2 |
| **2** | 1.218 ± 0.003 × 106 | 5.013 ± 0.010 × 10-4 | 412 | 19.1 ± 0.01 | 2.095 ± 1.200 × 1012 | 0.287 | 2 |
| **3** | 1.195 ± 0.003 × 106 | 4.361 ± 0.009 × 10-4 | 365 | 20.7 ± 0.01 | 3.899 ± 5.500 × 1012 | 0.298 | 2 |