

Sensorgrams obtained for each replicate of peptide 22 / PhdSTm55-71 (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). The association and dissociation times were 80 s and 800 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 22.

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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** | 1.525 ± 0.004 × 106 | 5.213 ± 0.016 × 10-4 | 342 | 20.5 ± 0.01 | 4.07 ± 120.00 × 1013 | 0.376 | 2 |
| **2** | 1.466 ± 0.004 × 106 | 4.925 ± 0.015 × 10-4 | 336 | 21.8 ± 0.01 | 1.131 ± 2.100 × 1013 | 0.381 | 2 |
| **3** | 1.357 ± 0.003 × 106 | 4.946 ± 0.015 × 10-4 | 365 | 22.6 ± 0.01 | 2.951 ± 2.200 × 1013 | 0.386 | 2 |