

Sensorgrams obtained for each replicate of peptide 23 / PhdSTm56-70 (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 200 nM to 0.824 nM (3-fold dilutions). The association and dissociation times were 80 s and 400 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 23.

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| **Replicate** | **kon (M-1 s-1)** | **koff (s-1)** | **KD (nM)** | **RMAX (RU)** | **tC (RU M-1 s-1)** | **Chi2 (RU2)** | **U-value** |
| **1** | 1.534 ± 0.006 × 106 | 2.840 ± 0.008 × 10-3 | 1.85 | 17.6 ± 0.01 | 2.425 ± 2.000 × 1012 | 0.461 | 2 |
| **2** | 1.439 ± 0.006 × 106 | 2.785 ± 0.008 × 10-3 | 1.94 | 18.5 ± 0.01 | 1.631 ± 3.300 × 1012 | 0.455 | 2 |
| **3** | 1.265 ± 0.005 × 106 | 2.758 ± 0.007 × 10-3 | 2.18 | 20.2 ± 0.01 | 4.966 ± 42.000 × 1011 | 0.457 | 2 |