

Sensorgrams obtained for each replicate of peptide 16 / PhdSTm52-73 E69A (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 16.

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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** | 2.199 ± 0.005 × 106 | 1.511 ± 0.007 × 10-4 | 68.7 | 23.4 ± 0.01 | 2.47 ± 30.00 × 1014 | 0.310 | 3 |
| **2** | 2.373 ± 0.005 × 106 | 1.688 ± 0.007 × 10-4 | 70.3 | 24.0 ± 0.01 | 9.908 ± 24.000 × 1014 | 0.348 | 2 |
| **3** | 1.730 ± 0.011 × 106 | 0.8970 ± 0.0037 × 10-4 | 51.8 | 26.4 ± 0.01 | 6.090 ± 0.029 × 106 | 0.079 | 2 |