

Sensorgrams obtained for each replicate of peptide 13 / PhdSTm52-73 E66A (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 1000 s, respectively.

Summary of the fitted parameters obtained from each SPR measurement of peptide 13.

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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** | 1.504 ± 0.002 × 106 | 7.151 ± 0.063 × 10-5 | 47.5 | 35.0 ± 0.01 | 4.63 ± 12.00 × 1012 | 0.406 | 5 |
| **2** | 3.260 ± 0.013 × 106 | 14.70 ± 0.04 × 10-5 | 45.1 | 28.9 ± 0.01 | 6.760 ± 0.094 × 107 | 0.111 | 2 |
| **3** | 3.350 ± 0.017 × 106 | 11.80 ± 0.05 × 10-5 | 35.2 | 29.9 ± 0.01 | 4.830 ± 0.058 × 107 | 0.159 | 2 |