

Sensorgrams (upper charts) and steady-state fit (lower charts) obtained for each replicate of peptide 14 / PhdSTm52-73 L67A (analyte) binding to DocSTm (ligand). Six concentrations of the analyte were flown in multiple individual cycles, ranging from 500 nM to 2.06 nM (3-fold dilutions). The association and dissociation times were, respectively, 100 s and 300 s. For replicate 3 the association and dissociation times were, respectively, 80 s and 200 s

Summary of the fitted parameters obtained from each SPR measurement of peptide 14.

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| **Replicate** | **KD (nM)** | **RMAX (RU)** | **Offset (RU)** | **Chi2 (RU2)** |
| **1** | 24.96 ± 0.50 | 26.8 ± 0.1 | 2.10 ± 0.11 | 0.009 |
| **2** | 23.93 ± 0.94 | 24.5 ± 0.2 | 2.10 ± 0.20 | 0.028 |
| **3** | 15.4 ± 2.13 | 15.8 ± 0.5 | 0.90 ± 0.54 | 0.131 |