

Sensorgrams obtained for each replicate of peptide 18 / PhdSTm52-73 D72A (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). In all replicates the association time was 80s. The dissociation times were 1000 s for replicates 1 and 2 and 1200 s for replicate 3.

Summary of the fitted parameters obtained from each SPR measurement of peptide 18.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Replicate** | **kon (M-1 s-1)** | **koff (s-1)** | **KD (pM)** | **RMAX (RU)** | **tC (RU M-1 s-1)** | **Chi2 (RU2)** | **U-value** |
| **1** | 1.397 ± 0.002 × 106 | 0.7430 ± 0.0069 × 10-4 | 53.2 | 35.7 ± 0.01 | 1.189 ± 1.800 × 1015 | 0.506 | 5 |
| **2** | 3.007 ± 0.005 × 106 | 0.5670 ± 0.0066 × 10-4 | 18.9 | 24.7 ± 0.01 | 7.652 ± 15.000 × 1012 | 0.245 | 7 |
| **3** | 3.120 ± 0.003 × 106 | 1.200 ± 0.003 × 10-4 | 38.5 | 30.2 ± 0.01 | 5.850 ± 5.030 × 1013 | 0.142 | 2 |