



Sensorgrams obtained for each replicate of peptide **8** / Phd<sub>STM</sub><sup>52-73</sup> M60A (analyte) binding to Doc<sub>STM</sub> (ligand). Six concentrations of the analyte were flown over the surface in a single cycle, ranging from 100 nM to 0.412 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 **8**.

Replicate	$k_{on}$ ( $M^{-1} s^{-1}$ )	$k_{off}$ ( $s^{-1}$ )	$K_D$ (pM)	$R_{MAX}$ (RU)	$t_c$ ( $RU M^{-1} s^{-1}$ )	$\chi^2$ (RU <sup>2</sup> )	U-value
1	$1.442 \pm 0.002 \times 10^6$	$9.658 \pm 0.008 \times 10^{-4}$	670	$33.6 \pm 0.01$	$1.566 \pm 1.000 \times 10^{13}$	0.275	1
2	$1.490 \pm 0.003 \times 10^6$	$9.101 \pm 0.010 \times 10^{-4}$	611	$33.5 \pm 0.01$	$3.717 \pm 4.600 \times 10^{13}$	0.418	1
3	$3.730 \pm 0.016 \times 10^6$	$18.10 \pm 0.06 \times 10^{-4}$	485	$26.3 \pm 0.01$	$8.970 \pm 0.178 \times 10^7$	0.248	1