



Sensorgrams obtained for each replicate of peptide **21** / Phd<sub>STm</sub><sup>55-73</sup> (analyte) binding to Doc<sub>STm</sub> (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 **21**.

Replicate	$k_{on}$ ( $M^{-1} s^{-1}$ )	$k_{off}$ ( $s^{-1}$ )	$K_D$ (pM)	$R_{MAX}$ (RU)	$t_c$ ( $RU M^{-1} s^{-1}$ )	$\chi^2$ ( $RU^2$ )	U-value
<b>1</b>	$1.344 \pm 0.004 \times 10^6$	$5.508 \pm 0.011 \times 10^{-4}$	410	$17.6 \pm 0.01$	$9.656 \pm 17.000 \times 10^{12}$	0.292	2
<b>2</b>	$1.218 \pm 0.003 \times 10^6$	$5.013 \pm 0.010 \times 10^{-4}$	412	$19.1 \pm 0.01$	$2.095 \pm 1.200 \times 10^{12}$	0.287	2
<b>3</b>	$1.195 \pm 0.003 \times 10^6$	$4.361 \pm 0.009 \times 10^{-4}$	365	$20.7 \pm 0.01$	$3.899 \pm 5.500 \times 10^{12}$	0.298	2