



Sensorgrams obtained for each replicate of peptide **1** / Phd_{STm}⁵²⁻⁷³ (analyte) binding to Doc_{STm} (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 **1**.

Replicate	k_{on} ($M^{-1} s^{-1}$)	k_{off} (s^{-1})	K_D (pM)	R_{MAX} (RU)	t_c ($RU M^{-1} s^{-1}$)	χ^2 (RU ²)	U-value
1	$1.056 \pm 0.001 \times 10^6$	$7.750 \pm 0.040 \times 10^{-5}$	73.4	39.20 ± 0.01	$1.694 \pm 15.000 \times 10^{13}$	0.195	3
2	$1.065 \pm 0.001 \times 10^6$	$8.926 \pm 0.054 \times 10^{-5}$	83.8	40.20 ± 0.01	$2.540 \pm 1.100 \times 10^{11}$	0.371	3
3	$1.610 \pm 0.002 \times 10^6$	$9.520 \pm 0.047 \times 10^{-5}$	59.1	29.40 ± 0.01	$1.670 \pm 11.200 \times 10^{13}$	0.157	3
4	$1.270 \pm 0.002 \times 10^6$	$10.40 \pm 0.040 \times 10^{-5}$	81.9	29.50 ± 0.01	$2.430 \pm 0.986 \times 10^9$	0.113	2