



Sensorgrams obtained for each replicate of peptide **3** / Phd_{STm}⁵²⁻⁷³ D53A (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 times were 80s for replicates 1 and 2 and 200 s for replicate 3. In all replicates the dissociation time was 1200 s.

Summary of the fitted parameters obtained from each SPR measurement of peptide **3**.

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	$5.480 \pm 0.010 \times 10^6$	$6.650 \pm 0.052 \times 10^{-5}$	12.1	31.2 ± 0.01	$4.970 \pm 3.920 \times 10^{12}$	0.434	5
2	$4.980 \pm 0.009 \times 10^6$	$8.250 \pm 0.052 \times 10^{-5}$	16.6	30.8 ± 0.01	$1.280 \pm 3.230 \times 10^{14}$	0.449	5
3	$4.760 \pm 0.008 \times 10^6$	$4.720 \pm 0.049 \times 10^{-5}$	9.92	30.2 ± 0.01	$3.270 \pm 9.670 \times 10^{13}$	0.358	7