



Sensorgrams obtained for each replicate of peptide **19** / Phd_{STm}⁵²⁻⁷³ K73A (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). In all replicates the association time was 80s. The dissociation times were 1000 s for replicates 1 and 2, and 1200 s for replicates 3 and 4.

Summary of the fitted parameters obtained from each SPR measurement of peptide **19**.

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
1	$1.085 \pm 0.001 \times 10^6$	$1.092 \pm 0.005 \times 10^{-4}$	101	32.4 ± 0.01	$4.165 \pm 25.000 \times 10^{12}$	0.211	3
2	$2.120 \pm 0.013 \times 10^6$	$1.344 \pm 0.006 \times 10^{-4}$	63.4	22.1 ± 0.01	$9.656 \pm 0.560 \times 10^7$	0.127	2
3	$1.280 \pm 0.002 \times 10^6$	$1.280 \pm 0.003 \times 10^{-4}$	100	26.5 ± 0.01	$2.260 \pm 8.360 \times 10^{10}$	0.092	1
4	$1.280 \pm 0.004 \times 10^6$	$1.320 \pm 0.002 \times 10^{-4}$	103	25.7 ± 0.01	$6.870 \pm 0.184 \times 10^7$	0.049	1